

THE  
GEORGE  
WASHINGTON  
UNIVERSITY  
  
CATALOGUE

THE SUMMER SESSIONS

1947



THE  
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WASHINGTON  
UNIVERSITY  
BULLETIN

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VOL. XLVII

No. 1

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THE SUMMER SESSIONS

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WASHINGTON, D. C.

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BULLETIN

Vol. 1

1907-1908

THE SUMMER SESSIONS

WASHINGTON, D. C.

PREPARED BY THE  
UNIVERSITY

BY THE UNIVERSITY

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# CALENDAR OF THE SUMMER SESSIONS \*

1948

Date	Day	Occasion
May 3 .....	Monday .....	Preregistration of students registered in the winter term
June 1 .....	Tuesday .....	Registration of new students for the first session and the fifteen-week term
June 2 .....	Wednesday .....	First session and fifteen-week term classes begin
July 5 .....	Monday .....	Independence Day. Holiday
July 26 .....	Monday .....	First session ends
July 27 .....	Tuesday .....	Registration for second session
July 28 .....	Wednesday .....	Second session classes begin
Aug. 28 .....	Saturday .....	Foreign-language examinations for candidates for the Master's degrees
Sept. 6 .....	Monday .....	Labor Day. Holiday
Sept. 10 .....	Friday .....	Fifteen-week term ends
Sept. 17 .....	Friday .....	Second session ends
Sept. 22-24 ..	Wednesday through Saturday .....	Registration for the fall term of the academic year 1948-49

\* The calendar for the special sessions of the School of Education is as follows: Presession, June 14-July 2; Special Six-Week Session, July 6-August 13; Postsession, August 16-September 3. Registration for each of these sessions is held on the first day of classes.



THE UNIVERSITY

THE HISTORY OF THE

REIGN OF  
HIS MOST EXCELLENT  
MAYESTY  
JAMES THE FIRST  
BY  
JAMES MONTEAGUE, ESQ.  
OF THE MIDDLE TEMPLE, ESQ.

IN TWO VOLUMES.

LONDON:  
Printed by J. Streater, at the  
Sign of the Gun, in St. Dun-  
stons Church-yard, near  
St. Dunstons Church, in  
the County of Middlesex.  
1714.



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\* On leave of absence 1947-48.



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Charles William Cole, Ph.D., *Assistant Dean of the Summer Sessions*

\* On leave of absence 1947-48.

# THE UNIVERSITY

## HISTORY AND ORGANIZATION

The idea of a university in the Capital of the Nation was sponsored by George Washington, who during his public life urged the establishment of such an institution and who in his will left fifty shares of stock in the Potomac (Canal) Company for the endowment of a university to be established in the District of Columbia "to which the youth of fortune and talents from all parts thereof might be sent for the completion of their Education in all the branches of polite literature;—in arts and Sciences,—in acquiring knowledge in the principles of Politics & good Government".

Columbian College in the District of Columbia was chartered by an act of Congress of February 9, 1821. In 1873 the name was changed to "Columbian University" and in 1904 to "The George Washington University".

The University as it is now organized consists of the Junior College, comprising the work of the freshman and sophomore years; Columbian College, the senior college of liberal arts, which offers work leading to the Bachelor's and Master's degrees; the Graduate Council, which offers work leading to the degree of Doctor of Philosophy; the professional schools, including Medicine, Law, Engineering, Pharmacy, Education, and Government; the Division of University Students, which leads to no degree but makes the work of the University accessible to the mature student; and the Division of Special Students, in which are registered students who wish to work toward degrees but who lack the qualifications for admission to degree-granting schools or colleges.

## ACADEMIC STATUS

The George Washington University is on the approved list of the Association of American Universities, the standard accrediting body for the United States. This fact not only assures to students the academic standards of this accrediting body, but also is important to those who desire to transfer credits from one institution to another.

The University is also accredited by its regional accrediting agency, the Middle States Association of Colleges and Secondary Schools, and is on the approved list of the American Association of University Women.

The Law School is a charter member of the Association of American Law Schools and is approved by the Council of Legal Education of the American Bar Association. The School of Medicine is a member of the



Association of American Medical Colleges, and is one of the medical colleges which have been designated continuously as "class A" by the American Medical Association. The School of Pharmacy is accredited by the American Council on Pharmaceutical Education and is a member of the American Association of Colleges of Pharmacy. The School of Engineering is on the accredited list of the Engineers' Council for Professional Development.

#### LOCATION

The George Washington University is in downtown Washington, four blocks west of the White House and east of the Potomac River with its extensive parkway. Within a few blocks are the buildings housing the offices of many of the Departments of the Government, including the Department of State, the Department of the Treasury, the Department of Justice, the Department of the Navy, the Department of the Interior, the Department of Agriculture, the Department of Commerce, and the Department of Labor. The Corcoran Gallery of Art, the Pan American Union Building, and the National Academy of Sciences are also near by, and the Capitol and the Library of Congress are readily accessible.

#### EDUCATIONAL FACILITIES

Buildings, grounds, and equipment of the University are valued at over \$6,700,000. The buildings of the colleges, schools, and divisions offering Summer Sessions work are in the vicinity of Twenty-first and G Streets NW.

*The University Library*—The University Library contains more than 165,000 volumes, and with the exception of the law and medical collections is housed in the Library Building.

Regulations governing the use of the library, the circulation of books, and the use of reserve books and periodicals are available at the service desks of the Library.

#### OTHER LIBRARY FACILITIES IN WASHINGTON

The student has access also to the Library of Congress, the Public Library of the District of Columbia and its branches, the Library of the Carnegie Endowment for International Peace, the Library of the Pan American Union, the Library of the Bureau of Railway Economics, the Library of the United States Department of Agriculture, the Library of the United States Office of Education, the Army Medical Library, the Library of the Smithsonian Institution, and many other great special collections of the government departments.

**RESEARCH FACILITIES OF WASHINGTON**

The arrangement of the summer schedule of classes permits the full-time student to avail himself of the opportunity to study, at first hand, the working of the Federal Government and so to form a background for intelligent and useful citizenship.

In the departmental libraries of the Federal Government are a multitude of reports made by eminent specialists in all fields of science on the results of study and research in the bureaus, experimental stations, laboratories, museums, and observatories of the Nation.

In addition to the governmental collection the student has access to the research facilities of such scientific and educational groups, whose headquarters are situated in Washington, as the Carnegie Institution, the American Council on Education, the American Council of Learned Societies, the National Academy of Science, the National Research Council, the National Education Association, and the National Geographic Society.



THE SUMMER SESSIONS

1948





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## THE SUMMER SESSIONS

The work of the Summer Sessions has been planned to meet the needs of full- and part-time students; of those who are accelerating the college work; and of those who, because of the pressure of employment, **are unable to attend classes daily.**

During the summer of 1948, courses are offered in the Junior College, Columbian College (the senior college), the Law School, the School of Engineering, the School of Education, and the School of Government.

Students may enter the Summer Sessions at the beginning of any one of the sessions.

In the first and second sessions classes meet daily, Monday through Friday, for a period of eight weeks. During each session the work of a **regular term of the academic year is completed.**

In the fifteen-week term classes meet on the normal-term basis—in most cases three times a week. During the fifteen weeks the work of a **regular term of the academic year is completed.**

In all of the sessions of the School of Education classes meet daily, Monday through Friday.

### ADMISSION

An applicant for admission must obtain from the Office of the Director of Admissions an application blank which he must fill out completely and return with the application fee of \$3. A recent photograph, with signature, **of the applicant must be attached to the blank.**

Applications should be filed by May 10 for the first session and the **fifteen-week term and by July 1 for the second session.**

### RECORDS OF PREVIOUS ACADEMIC WORK

An applicant from a secondary school must send the high school record form furnished by the University to his high school principal, with the request that the principal fill out the form and mail it direct to the **Office of the Director of Admissions.**

An applicant who has previously attended an institution of higher learning should request the registrar of that institution to mail direct to the Office of the Director of Admissions a transcript of his record. If he has attended more than one such institution he must request the registrar of each institution to send to the Office of the Director of Admissions a transcript of his record, *even though credits were not earned*, together with an honorable dismissal.

**ENTRANCE REQUIREMENTS****The Student Seeking a Degree**

Entrance requirements are stated in this bulletin under the various colleges, schools, and divisions.

**The Student Not Seeking a Degree**

Students 21 years of age or over who are not interested in working for a degree in this University may be considered for admission to the Division of University Students to take courses for which they have adequate preparation, as evidenced by previous scholastic records.

In special instances, with the permission of the instructor, a person who has been admitted to the University may be registered as an auditor in a class without being required to take active part in the exercises or to pass examinations, but no credit will be allowed for such attendance.

Students matriculated for degrees in other institutions who wish to take certain courses in this University will be admitted to the Division of University Students for the summer only, to the extent that the facilities permit. In such cases transcripts of record are not required.

**REGISTRATION •**

Before a student may register he must have satisfied the Office of Admissions that he is qualified to enter the University.

A student previously matriculated in the University but not in attendance during the term preceding this registration must file an application for readmission in advance of registration.

For preregistration and registration students should report to the Office of the Registrar, Building C, 2029 G Street NW., between 9:00 A.M. and 7:00 P.M., on the dates stated in the Calendar.

**CHANGES IN PROGRAM OF STUDY**

Changes in programs of study may be made only with the permission of the adviser or major professor and the dean or director of the college, school, or division concerned.

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Further details concerning curricula, courses offered, or admission procedure may be obtained from the Office of the Director of Admissions.

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• Registration for the Law School is conducted in Stockton Hall, 720 Twentieth Street NW.

## FEES AND FINANCIAL REGULATIONS

By authorization of the Board of Trustees, the following fees have been adopted:

## TUITION FEES

For each credit hour..... \$12.00

## ADDITIONAL COURSE FEES

In certain courses additional fees such as laboratory and material fees are charged as indicated in the course descriptions. These fees are due with the tuition fee for the course. Breakage of apparatus is charged against the individual student. When breakage is in excess of the normal amount provided for in the laboratory fee, the individual student will be required to pay such additional charges as are determined by the department concerned.

## SPECIAL FEES

Application fee, charged all new applicants for admission.....	3.00
Late registration fee, for failure to register within the designated period.....	5.00
Service fee, for late payment of tuition (see "Payment of Fees")....	1.00
Reinstatement fee, for reinstatement after suspension for delinquency in fees .....	5.00
For examinations to qualify for advanced courses, and for all special examinations, for each subject.....	1.00
Check-out fee, charged all students who fail to check out of the chemistry laboratory by the time set by the instructor.....	2.00
Withdrawal fee, charged all students who preregister and withdraw prior to the day of regular registration.....	5.00

## UNIVERSITY FEE

Registration in the University entitles each student to the following University privileges: (1) the issuance of three certified transcripts of record, it and when desired; (2) the use of the University library facilities, except as otherwise designated; (3) medical and hospital services described below. These privileges, with the exception of the issuance of transcripts, cease when the student withdraws or is dismissed from the University.

**Medical and Hospital Services.**—These services include: (1) three visits by the University physician or surgeon, office or residence (District of Columbia) in any one illness, exclusive of a specialist, surgical operation, laboratory, or X-ray examinations; (2) hospitalization, including board, medicine, and nursing in the University Hospital for not more than two weeks during a school year—the necessity to be determined by the Director of Health Administration. The duration of hospitalization period (maximum, two weeks) is also to be determined by the Director of Health Administration.

The student is allowed, if he so desires, to engage physicians and



nurses of his own choice, but when he does so he will be responsible for the fees charged.

This medical benefit does not apply to illness or disability incurred previous to the University term or prior to payment of the University registration fee.

#### PAYMENT OF FEES

All fees are payable at the Office of the Cashier, 725 Twenty-first Street NW. No student is permitted to complete registration or to attend classes until all fees are paid. Fees for each session are due in advance at the time of preregistration in the case of former students; at the time of registration in the case of new students.

In exceptional cases, subject to the approval of the Comptroller, the student may sign a contract for the fees for courses which extend throughout one unbroken fifteen-week term, permitting two payments as follows: one-half at the time of registration and one-half on July 23.\* The student whose fees are paid between July 24 and 30 is charged a service fee of \$1.\* A student who fails to make this payment by July 30 will be suspended and may not attend classes until he has been officially reinstated and has paid all accrued fees and a reinstatement fee of \$5. A suspended student may not be reinstated for the session after one week from the date of suspension. Applications for reinstatement are to be made to the dean of the college, school, or division in which the student is registered.

An auditor pays all fees chargeable to the student registered for credit except the late-registration fee.

#### WITHDRAWALS AND REFUNDS

Registrations, except for courses which extend throughout one unbroken term of fifteen weeks, are for the session, and no refunds or rebates are allowed, unless the registration is in advance and the course is dropped before the day of registration for the session involved.

A student who preregisters and withdraws prior to the date of regular registration will be charged a withdrawal fee of \$5.

If notice of withdrawal or change in schedule involving courses which extend over an unbroken term of fifteen weeks is received by the dean of the college, school, or division concerned on or before July 20,\* the second payment will be cancelled or adjusted. Notice to an instructor is not acceptable notice.

\* Students in the Law School registered for courses in the unbroken sixteen-week term may pay their second half of tuition on July 27. The student whose fees are paid between July 28 and August 4 is charged a service fee of \$1. A student who fails to make this payment by August 4 will be suspended and may not attend classes until he has been officially reinstated and has paid all accrued fees and a reinstatement fee of \$5. If notice of withdrawal is received by the Dean of the Law School on or before July 23 the second payment will be cancelled.

In no case will any part of the initial payment of tuition be refunded because of nonattendance upon classes.

Payments apply only to the session or term for which registration charges are incurred and in no case will these payments be credited to another session or term.

Any student in chemistry who fails to check out of the laboratory on or before the date set by the instructor, unless excused by the instructor, will be charged a check-out fee of \$2. A student dropping a course before the end of the session or term must check out of the laboratory at the next scheduled laboratory period.

No permission to withdraw and no certificate for work done will be given a student who has not a clear financial record.

#### UNIVERSITY REGULATIONS

*Students in the Summer Sessions are subject to, and are expected to familiarize themselves with, the University regulations as stated in the general catalogue.*

**Academic Credit.**—The Summer Sessions are an integral part of the University. Academic credit for completed work will be given toward the appropriate degrees in the various colleges and schools of the University in accordance with their separate regulations and requirements.

**Residence.**—Summer Sessions work may be counted in residence but the candidate for a degree must satisfy the residence requirements of the school or college concerned as stated in the general catalogue.

**Amount of Work.**—No full-time student may take more than nine credit hours of work during either session; no employed student, more than six hours. By carrying work in both sessions, a full-time student may earn as much as eighteen credit hours; an employed student, twelve hours.

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The right is reserved to drop any student whenever, in the interest of the student or the University, the Faculty deems it advisable to do so.

The University is not responsible for the loss of personal property belonging to a student.

The University and its various colleges, schools, and divisions reserve the right to modify or change the requirements, rules, and fees of the University. Such regulations shall go into force whenever the proper authorities may determine and shall apply to every student of the University.

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Detailed information concerning admission; scholarship requirements of the individual colleges, schools, and divisions; and requirements for

degrees may be obtained from the general catalogue, which is available on request at the Office of the Director of Admissions.

#### STUDENT LIFE

##### SOCIAL AND RECREATIONAL PROGRAM OF THE UNIVERSITY

Provision is made for the social and recreational side of student life during the Summer Sessions. The Annual Summer Sessions Party opens the season and is followed by Friday Evening Starlight Dances on the Lisner Terrace. Teas are arranged so that new students will have a chance to become acquainted with their fellow students.

The city of Washington affords a variety of recreational opportunities. Wooded trails for hiking, riding, and picnicking wind through Rock Creek Park.

The National Symphony Orchestra presents a series of concerts at the Potomac Watergate nearby.

#### LIVING ACCOMMODATIONS

*Women Students.*—Women students under twenty-one years of age who are enrolled for six or more credit hours a session of academic work in the University must have their residences approved by the Director of Activities for Women before their registrations can be completed. In the Hattie M. Strong Residence Hall for Women, single rooms with breakfast and dinner are \$65 a month; double rooms, with the same service, are \$58 a month a person. Applications for rooms should be made well in advance. Forms for application, together with detailed information, may be obtained from the Director of Activities for Women, in Columbian House.

*Men Students.*—A limited number of single and double rooms are provided for men students in temporary dormitories. Residence is restricted to veterans of World War II who are enrolled for a minimum of twelve credit hours of academic work in the 15-week term or six credit hours in each of the 8-week terms in the University. Vacancies will be filled from the list of applicants in accordance with the date of application. Single rooms are \$17 a month; double rooms are \$13 a month a person. Forms for application for room reservation may be obtained from the Director of Activities for Men, 2027 H Street NW.

The prices stated above are subject to change without notice.

#### VETERANS EDUCATION

Veterans who wish advice concerning the educational program of the University or the procedure for securing the educational benefits of the GI Bill should consult the Veterans Office, Building Q.



AUTHORIZATION FROM THE VETERANS ADMINISTRATION

Prior to registration the veteran should obtain from the Regional Office of the Veterans Administration, 1825 H Street NW., a Certificate of Entitlement or, if entitled to vocational rehabilitation, a letter approving training under Public Law 16 for presentation to the Veterans Office of the University at the time of registration. A photostatic copy of separation papers must accompany the application for certification.

ADMISSION

For veterans who are deficient in their regular requirements for admission, but who have been found by educational and psychological tests to be able to undertake college work, the University has made certain modifications in the entrance requirements.

*Advanced Standing.*—To receive credit for service schools, veterans should submit to the Director of Admissions photostatic copies of service records indicating courses successfully completed with sufficient identification of the course to enable the Admissions Office to locate it in the Guide to the Evaluation of Educational Experience in the Armed Forces.



THE COLLEGES, SCHOOLS, AND DIVISIONS





## THE COLLEGES, SCHOOLS, AND DIVISIONS

Information concerning specific requirements for degrees is omitted from this bulletin. For such information, the student is referred to the general catalogue.

### THE JUNIOR COLLEGE

The Junior College includes the first two years of college work. Its curricula are intended to continue the studies of a general cultural nature begun in secondary school, and to lay a foundation for the more specialized work which is to follow.

The Junior College also provides the preprofessional work required for admission to the schools of Pharmacy, Education, and Government, and the first two years of the preprofessional work required for admission to the schools of Medicine and Law.

In addition it provides a two-year terminal curriculum in Secretarial Studies and a two-year terminal curriculum in Accounting for students who wish strictly vocational training in these subjects.

### THE DEGREE OF ASSOCIATE IN ARTS

The Junior College offers work leading to the degree of Associate in Arts.

### ENTRANCE REQUIREMENTS

An acceptable certificate of graduation from an accredited secondary school is required. The acceptability of the certificate depends upon the student's character and the quality of his work.

### COLUMBIAN COLLEGE

Columbian College, the senior college of liberal arts and sciences, comprises the work of the junior and senior years and the Master of Arts and Master of Science disciplines.

### THE DEGREES

Columbian College offers work leading to the following degrees: Bachelor of Arts, Bachelor of Science, Master of Arts, and Master of Science. In cooperation with the School of Medicine, Columbian College offers work leading to the combined degrees of Bachelor of Arts and Doctor of Medicine.

**UNDERGRADUATE MAJORS**

Curricula leading to the degree of Bachelor of Arts are available in the following major fields:

American Thought and Civilization	Latin American Civilization and Culture
Art:	Latin American Economics
Appreciation	Mathematics
Drawing and Painting	Philosophy
Biology	Physics
Botany	Political Science
Chemistry	Psychology
Economics	Sociology
English Literature	Spanish American Literature
French Literature	Spanish Literature
Geography	Speech
Germanic Languages and Literatures	Statistics
History	Zoology
International Relations	

Curricula leading to the degree of Bachelor of Science are available in the following major fields:

Biology	Physics
Botany	Statistics
Chemistry	Zoology
Mathematics	

**GRADUATE FIELDS**

Graduate work leading to the degree of Master of Arts or Master of Science is offered in the following fields:

American Literary and Cultural	Germanic Languages and Literatures
History	History
Anatomy	Mathematics
Bacteriology	Philosophy
Biochemistry	Physics
Biology	Physiology
Botany	Political Science
Chemistry	Psychology
Economics	Spanish American Literature
English and American Literature	Spanish Literature
English Literature	Statistics
French Literature	Zoology

In addition, programs can be arranged in combined fields subject to the approval of the division or divisions concerned.

**ENTRANCE REQUIREMENTS**

For the Bachelor's degrees, the degree of Associate in Arts based on the appropriate curriculum in the Junior College, or the equivalent, is required. Scholarship requirements may be somewhat higher than those



for graduation from the Junior College. For the Master's degrees, an approved Bachelor's degree from an accredited institution and a transcript of studies previously pursued, showing a superior quality of work in the major field, are required.

#### THE GRADUATE COUNCIL

The Graduate Council offers work leading only to the degree of Doctor of Philosophy. Because the basis for work under the Graduate Council is primarily creative research, regular study in specific courses is considered quite incidental and is therefore not emphasized in connection with the curricula of the Summer Sessions. A student wishing to work under the disciplines of the Graduate Council will consult the Chairman of the Graduate Council for information concerning credentials and candidacy.

A pamphlet describing details of the Graduate Council program, together with a current list of fields of research offered by the Council, will be sent upon request to the Office of the Graduate Council.

#### THE LAW SCHOOL

The Law School offers work leading to the following degrees: Bachelor of Laws, Juris Doctor, Master of Laws, Master of Comparative Law, and Doctor of Juridical Science.

#### ENTRANCE REQUIREMENTS

*For the Degrees of Bachelor of Laws\* and Juris Doctor.†*—A Bachelor's degree awarded upon completion of a four-year course in an approved college or university is required.

*For the Degree of Master of Laws.\**—A Bachelor's degree awarded upon completion of a four-year course in an approved college or university and the degree of Bachelor of Laws from an approved law school are required.

*For the Degree of Master of Comparative Law.*—The following are required: (1) the successful completion of and graduation from a course in arts, philosophy, letters or sciences, equivalent to graduation from a gymnasium, lycee, or lycee (junior college); and (2) graduation in law from a recognized foreign university where training was in civil law.

\* No less than one-half the work necessary for graduation from an approved college or university will be accepted in satisfying the admission requirements for (1) regular students of the University in attendance during the 1946 winter term, (2) applicants for the degree of Bachelor of Laws or Master of Laws who have completed not less than 24 months of continuous service in the armed forces of the United States during World War II.

† A Bachelor's degree which includes credits for work done in this or any other Law School will not satisfy the admission requirement for this degree.

*For the Degree of Doctor of Juridical Science.*—The following are required: (1) the degree of Juris Doctor from this Law School; or (2) the degree of Bachelor of Arts from an approved college, the degree of Bachelor of Laws or the equivalent, earned with high rank, from an approved law school, outstanding capacity for scholarly work in the field of law, and acceptance as a candidate by the Committee on Graduate Students of the Law School.

*Unclassified Students.*—A person eligible for admission to regular standing but not a candidate for a degree may, at the discretion of the Dean, be admitted as an unclassified student.

A person who is in good standing as a candidate for the degree in another approved law school may, at the discretion of the Dean, be admitted as an unclassified student. Work taken by an unclassified student will not be accepted for credit toward a degree at this Law School.

## THE SCHOOL OF ENGINEERING

### THE DEGREES

The School of Engineering offers work leading to the following degrees: Bachelor of Civil Engineering, Bachelor of Electrical Engineering, Bachelor of Mechanical Engineering, and Bachelor of Science in Engineering.

### ENTRANCE REQUIREMENTS

An acceptable certificate of graduation from an accredited secondary school, or the satisfactory passing of College Entrance Board examinations in secondary school subjects selected with the approval of the Director of Admissions is required.

Nine and one-half of the fifteen units required for entrance must be distributed as follows: three in English, two in algebra, one in plane geometry, one-half in plane trigonometry, one in physics or chemistry, and two in one foreign language or history. A graduate of an approved high school who does not offer for admission the particular subjects required for the engineering curriculum, but who does present not less than fifteen acceptable units, may be admitted on condition, if such deficiency in the distribution of units does not exceed two units.

## THE SCHOOL OF EDUCATION

The School of Education prepares teachers, supervisors, and administrators for educational service and offers opportunities to teachers of experience to extend their education. The schedule of courses is arranged to meet the needs of employed students as well as those able to

devote full time to their studies. It offers both graduate and undergraduate work.

#### THE DEGREES

The School of Education offers work leading to the following degrees: Bachelor of Arts in Education, Bachelor of Science in Home Economics, Bachelor of Science in Physical Education, Master of Arts in Education, and Doctor of Education.

#### ENTRANCE REQUIREMENTS

*For the Bachelor's Degrees.*—The satisfactory completion of two years of approved college work, or graduation from an approved two-year normal school, or the equivalent, is required.

*For the Master's Degree.*—A Bachelor's degree from an accredited college, or the equivalent, and the approval of the Committee on Admissions and Advanced Standing are required.

*For the Doctor's Degree.*—A Master's degree from an accredited college, or the equivalent, and the approval of the Faculty of the School of Education are required.

#### THE SCHOOL OF GOVERNMENT

##### THE DEGREES

The School of Government offers work leading to the following degrees: Bachelor of Arts in Government with a major in Foreign Affairs, Statistics, Accounting, and Business Administration; and Master of Arts in these fields as well as in Government and Economic Policy, Public Administration, Public Personnel Administration, and Vocational Counseling.

#### ENTRANCE REQUIREMENTS

*For the Bachelor's Degree.*—The satisfactory completion of two years of approved college work is required for admission to study for this degree.

*For the Master's Degree.*—An approved Bachelor's degree based on the proper training for the field selected by the student for graduate study is required.

#### FOREIGN SERVICE REVIEW COURSE

The University will again offer a twelve-week non-credit Review Course, June 28 to September 17, in preparation for the written Foreign Service Examination to be given by the Department of State on



September 27-30, 1948. To be eligible to take this examination, the applicant (1) shall be between 21 and 30 years of age as of July 1, 1948; (2) shall have been a citizen for at least 10 years; (3) shall not be married to an alien; (4) shall have an adequate knowledge of at least one foreign language.

Enrollment in the Foreign Service Review Course is limited and admission is on a competitive basis. Applicants must have a Bachelor's degree in the field of the social sciences and a superior academic record. Only in exceptional cases is admission granted to college seniors and graduates in other fields.

Application for admission must be received by June 5, 1948.

The cost of this course, including library and medical facilities and other privileges of the University, is \$216, which in the case of veterans is covered by the educational benefits of the GI Bill.

For further information and application forms, write to the Director, Foreign Service Review Course, School of Government.

#### THE DIVISION OF UNIVERSITY STUDENTS

The Division of University Students makes the work of the University, in its several colleges and schools, accessible to students 21 years of age or over who are not working toward a degree in this University.

Adequate preparation to undertake the desired courses is required.

#### THE DIVISION OF SPECIAL STUDENTS

This is a non degree-granting division of the University in which the Director of Admissions may authorize the placement of students in the process of making up entrance deficiencies to degree-granting colleges and schools of the University.

Complete credentials must be submitted and evaluated before a program of studies is approved.

COURSES OF INSTRUCTION





## COURSES OF INSTRUCTION

### EXPLANATION OF COURSE NUMBERS

*An odd number preceding the name of the course indicates that the course is offered in the first session; an even number, that it is offered in the second session. The letter "x" following an odd number (e.g., 5x) indicates that the course, normally given in the first session, is given in the second session. The letter "x" following an even number (e.g., 6x) indicates that the course, normally given in the second session, is given in the first session. The letter "S" following the number of a course indicates that the course is given in one term of fifteen weeks.*

*First-group courses.*—Courses numbered from 1 to 100, are planned for the student in the freshman or sophomore year. With the approval of the adviser and the dean, they may also be taken by a junior or senior. In certain instances, they may be taken by a graduate student to make up undergraduate deficiencies or as prerequisite to advanced courses, but they may not be credited toward a higher degree.

*Second-group courses.*—Courses numbered from 101 to 200, are planned for the student in the junior or senior year. They may be credited toward higher degrees only when registration for graduate credit has been approved at the beginning of the course by the dean responsible for the graduate work and by the officer of instruction, and when the completion of additional work has been certified by the officer of instruction.

*Third-group courses.*—Courses numbered from 201 to 300, are planned primarily for the graduate student. They are open, with the approval of the officer of instruction, to the qualified senior; they are not open to the Junior College student.

### INDICATION OF THE AMOUNT OF CREDIT

The number of hours of credit given for the satisfactory completion of a course is in most cases indicated in parentheses after the name of the course.

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The University reserves the right to change or withdraw any of the courses of instruction listed.

## BIOLOGY\*

## FIRST SESSION

- 1 Survey in Biology (3)** Munson  
A review of the plant and animal kingdoms with emphasis upon the interdependence of living things. Material fee, \$4.50. Lecture—Tues. and Thurs., 9:10 A.M.; laboratory—Tues. and Thurs., 10:10 to 12:00 A.M.; field trips—Wed. and Fri., 9:10 to 12:00 A.M.

- 125 Genetics (3)** Cook  
A one-term lecture course in which the general principles are illustrated with specific examples of inheritance in plants and animals, including man. Prerequisite: one year of college work in Biology, Botany, or Zoology. 8:10 A.M.

## SECOND SESSION

- 2 Survey in Biology (3)** Bowman  
A review of the fields of evolution and heredity, public health, and conservation of natural resources. Material fee, \$4.50. Lecture—Tues. and Thurs., 9:10 A.M.; laboratory—Tues. and Thurs., 10:10 to 12:00 A.M.; field trip—Wed. and Fri., 9:10 to 12:00 A.M.

- 115X Cytology (3)** Bowman  
Study of the nucleus and chromosomes and their role in heredity, with training in the preparation of materials for study. Material fee, \$5. Prerequisite: one year of college work in Biology, Botany, or Zoology. Lecture—Mon. and Wed., 2:10 P.M.; laboratory—Mon. and Wed., 3:10 to 5:00 P.M. and Tues. and Thurs., 2:10 to 4:00 P.M.

- 212 Research in Cytology** Bowman  
Hours and credits to be arranged

- 300 Thesis (3)** Bowman

## BOTANY ‡

## FIRST SESSION

- 1 Structure and Function of the Flowering Plant § (3)** Yocum  
The typical plant as a working mechanism, with the emphasis on the general historical significance of plant physiology. Material fee, \$4.50. Section A: lecture—Tues. through Fri., 9:10 A.M.; laboratory—Tues. and Thurs., 2:10 to 4:00 P.M. Section B: lecture—Tues. through Fri., 11:10 A.M.; laboratory—Tues. through Fri., 12:10 to 1:00 P.M.

\* See also the departments of Botany and Zoology.

‡ See also the departments of Biology and Zoology.

§ Botany 1 and 2 are prerequisite to all other courses in Botany.

**2x Survey of the Plant Kingdom\* (3)**

Study of the different kinds of plants, with emphasis on the evolution of the plant kingdom; practice in identifying flowering plants. Material fee, \$4.50. Lecture—Tues. through Fri., 10:10 P.M.; laboratory—Mon. and Fri., 2:10 to 4 P.M.

**261 Research**

Hours and credits to be arranged.

The Staff

**299 Thesis (3)**

The Staff

## SECOND SESSION

**2 Survey of the Plant Kingdom\* (3)**

Study of the different kinds of plants with emphasis on the evolution of the plant kingdom; practice in identifying flowering plants. Material fee, \$4.50. Section A: lecture—Tues. through Fri., 9:10 A.M.; laboratory—Tues. and Thurs., 2:10 to 4:00 P.M. Section B: lecture—Tues. through Fri., 11:10 A.M.; laboratory—Tues. through Fri., 12:10 to 1 P.M.

**262 Research**

Hours and credits to be arranged.

The Staff

**300 Thesis (3)**

The Staff

## BUSINESS ADMINISTRATION

## FIRST SESSION

**51 Introductory Accounting (3)**

Principles and procedure of double-entry accounting with special reference to single proprietorships. Section A: 8:10 A.M.; section B: 6:10 P.M.

The Staff

**52x Introductory Accounting (3)**

Accounting principles applied to partnerships and corporations; the valuation problem. Prerequisite: Business Administration 51. Section A: 9:10 A.M.; section B: 7:10 P.M.

The Staff

**102x Business Management (3)**

Organization and management of a business with particular reference to a manufacturing concern. 6:10 P.M.

**115 Business Finance (3)**

Survey of financial policies involved in new enterprises and study of capital structures, promotion, earnings, surplus, reorganization, and governmental regulation. Prerequisite: Business Administration 51-52. 7:10 P.M.

Steele

\* Botany 1 and 2 are prerequisite to all other courses in Botany.



118x *Investments* (3)

Analysis of factors of investment credit with application to different types of investments; proper selection of investments for various classes of investors; regulation. Prerequisite: Business Administration 51-52. 8:10 A.M.

145 *Cost Accounting* (3)

Byrne

Job order and process systems of cost findings; interrelations of the cost records and the general accounts; standard costs; distribution costs. Prerequisite: Business Administration 51-52. 7:10 A.M.

151 *Intermediate Accounting* (3)

Ward, Lewis

Partnerships, corporations, funds, reserves, depreciation, and valuation. Prerequisite: Business Administration 51-52. Section A: 9:10 A.M.; section B: 6:10 P.M.

153 *Advanced Accounting* (3)

Lewis

Consolidated statements, liquidations, and receiverships. Prerequisite: Business Administration 151-52. 7:10 P.M.

155 *Analysis of Financial Statements* (3)

Kennedy

Technique of analyzing financial statements for the guidance of operating executives, directors, stockholders, and creditors; valuation of balance sheet items; determination and interpretation of ratios. Prerequisite: Business Administration 51-52. 11:10 A.M.

171 *Principles of Marketing* (3)

Johnson

A survey of marketing, giving particular attention to consumption, retailing, wholesaling, and sales management; the entire marketing structure and its relation to the total economy. 7:10 A.M.

215 *Corporation Financial Problems* (3)

Kennedy

Financial practice in promotion, consolidations and mergers, capital structure adjustments, and reorganization. Tues. and Wed., 6:10 P.M.

## SECOND SESSION

51x *Introductory Accounting* (3)

The Staff

Principles and procedures of double-entry accounting with special reference to single proprietorships. Section A: 10:10 A.M.; section B: 7:10 P.M.

52 *Introductory Accounting* (3)

The Staff

Accounting principles applied to partnerships and corporations; the valuation problem. Prerequisite: Business Administration 51. Section A: 8:10 A.M.; section B: 7:10 P.M.

101x *Business Organization and Combination* (3)

Owens

Simple and interrelated forms of business enterprise and their control by government. 11:10 A.M.

115x *Business Finance* (3)

Survey of financial policies involved in new enterprise and study of capital structure, promotion, earnings, surplus, reorganization, and governmental regulation. Prerequisite: Business Administration 51-52. 8:10 A.M.

- 128 *Insurance* (3) \_\_\_\_\_  
Principles of property, life, marine, and casualty insurance; emphasis is placed upon the function of insurance in the economic life of a business or individual. 7-11 A.M.
- 152 *Intermediate Accounting* (3) Owens, Lewis  
Partnerships, corporations, funds, reserves, depreciations, and valuation. Prerequisite: Business Administration 51-52, 151. Section A: 9-11 A.M.; section B: 6-11 P.M.
- 155x *Analysis of Financial Statements* (3) Steele  
Technique of analyzing financial statements for the guidance of operating executives, directors, stockholders, and creditors; valuation of balance sheet items; determination and interpretation of ratios. Prerequisite: Business Administration 51-52. 7-11 P.M.
- 165x *Auditing* (3) Owens  
Duties and responsibilities of the auditor, principles and procedures in making audits, examination of working papers and the preparation of reports. Prerequisite: Business Administration 151-52 or permission of instructor. 7-11 A.M.
- 291x *Seminar in Business Administration* (3) \_\_\_\_\_  
Tues. and Wed., 6-11 P.M.

## CHEMISTRY

## FIRST SESSION

- †11 *General Chemistry* (4) Naeser, Harkness  
For students who are beginning the study of chemistry and for those with high school chemistry who fail the qualifying examination in Chemistry 12. This course is the first half of a full course. The second half, Chemistry 12, must be completed before credit is allowed. Laboratory fee, \$12. Lecture—section A: Tues. through Fri., 10-12 A.M.; section B: Tues. through Fri., 12-1 P.M. Laboratory—Section K: Tues. through Fri., 8-10 A.M.; section L: Tues. through Fri., 1-3 P.M.; section M: Tues. through Fri., 1-3 P.M. Recitation—section K: Tues. and Thurs., 11-11:30 A.M.; section L: Tues. and Thurs., 9-10 A.M.; section M: Tues. and Thurs., 3-4 P.M. A student registers for lecture, laboratory, and recitation sections. Either lecture section may be taken with any laboratory section that does not conflict in time, but the laboratory and recitation sections must have the same letter designation.
- 21 *Inorganic Qualitative Analysis* (4) Vincent  
Prerequisite: Chemistry 12. Theoretical and practical study of methods of separating and identifying the more common cations and anions using semi-micro technique. Laboratory fee, \$12. Lecture—Tues. through Fri., 1-3 P.M. Laboratory—section K: Tues. through Fri., 9-10 A.M.; section M: Tues. through Fri., 2-3 P.M.

† A dagger preceding an otherwise numbered course indicates that it is the first half of a full-year course, the second half of which must be completed before credit is allowed.

- 135 *Inorganic Chemistry: Preparations* (2) Naeser  
Application of the technique of inorganic chemistry to the preparation and purification of a list of selected substances. Laboratory fee, \$12. Morning and afternoon sections, hours to be arranged.
- 136x *Inorganic Chemistry: Preparations* (2) Naeser  
Prerequisite: Chemistry 135. Application of the technique of inorganic chemistry to the preparation and purification of compounds of the less common elements obtained from both minerals and commercial sources. Laboratory fee, \$12. Morning and afternoon sections, hours to be arranged.
- †151 *Organic Chemistry* (4) Mackall  
Chemistry of the carbon compounds. Semi-micro and macro techniques are employed in the laboratory. Prerequisite: Chemistry 12 and 21. This course is the first half of a full course. The second half, Chemistry 152, must be completed before credit is allowed. Lecture (3), laboratory (1). Laboratory fee, \$8. Lecture—Mon., Wed., and Fri., 9:15 and 11:15 A.M.; Laboratory—section K: Tues. and Thurs., 9:15 to 12:00 A.M.; section M: Tues. and Thurs., 2:15 to 5:00 P.M.
- 297 *Research* The Staff  
Hours, credits, and fees to be arranged.
- 299 *Thesis* (3) The Staff  
Hours to be arranged. Material fee, \$15.

## SECOND SESSION

- 12 *General Chemistry* (4) The Staff  
Prerequisite: Chemistry 11 or high school chemistry, and permission of the instructor. Laboratory fee, \$12. Lecture—section A: Tues. through Fri., 10:10 A.M.; section B: Tues. through Fri., 12:15 P.M.; Laboratory—section K: Tues. through Fri., 8:15 to 1:00 A.M.; section L: Tues. through Fri., 1:15 to 12:00 A.M.; section M: Tues. through Fri., 1:10 to 3:00 P.M.; section N: Tues. through Fri., 3:15 to 5:00 P.M.; Recitation—section K: Tues. and Thurs., 11:15 A.M.; section L: Tues. and Thurs., 9:15 A.M.; section M: Tues. and Thurs., 3:15 P.M.; section N: Tues. and Thurs., 2:15 P.M. A student registers for lecture, laboratory, and recitation sections. Either lecture section may be taken with any laboratory section that does not conflict in time, but the laboratory and recitation sections must have the same letter designation.
- 22 *Inorganic Quantitative Analysis* (4)  
Prerequisite: Chemistry 21 or the equivalent. The principles of gravimetric and volumetric analysis. Laboratory fee, \$15. Lecture—Tues. through Fri., 1:15 P.M.; Laboratory—section K: Tues. through Fri., 9:15 to 12:00 A.M.; section M: Tues. through Fri., 2:10 to 5:00 P.M.

† A dagger preceding an odd-numbered course indicates that it is the first half of a full-year course, the second half of which must be completed before credit is allowed.







SAILING ON THE POTOMAC  
THE UNIVERSITY YARD



IVY PASSAGE  
COLUMBIAN HOUSE AND THE  
NATURAL SCIENCE BUILDING.





STRONG HALL ROOF

STOCKTON HALL—THE LAW SCHOOL





- 152 *Organic Chemistry* (4) Wrenn  
A continuation of Chemistry 151. Prerequisite: Chemistry 151. Lecture (2), laboratory (2). Laboratory fee, \$12. Lecture—Tues. through Fri., 1:10 P.M.; Laboratory—Section K: Tues. through Fri., 9:10 to 12:10 A.M.; section M: Tues. through Fri., 2:10 to 5:00 P.M.
- 155x *Organic Chemistry: Preparations* (2 or 3) Wrenn  
The synthesis of organic compounds and the applications of the technique of organic chemistry to the preparation of pure compounds, using larger amounts and greater temperatures than in Chemistry 151-52. Prerequisite: Chemistry 22 and 152. Laboratory fee, \$7 a credit hour. Morning and afternoon sections; hours to be arranged.
- 298 *Research* The Staff  
Hours, credits, and fees to be arranged.
- 300 *Thesis* (3) The Staff  
Hours to be arranged. Material fee, \$15.

## CIVIL ENGINEERING

## FIRST SESSION

- 2x *Plane Surveying* (3) Eyman and Staff  
Principles, methods, and instruments used in surveying, with field work. Prerequisite: Trigonometry. Surveying fee, \$8. Tues. through Fri., 11:10 A.M.; field work—hours to be arranged.
- 25 *Engineering Materials* (2) Greenshields, Eyman  
Nonmetallic materials, with emphasis on cement. Prerequisite or concurrent registration: Chemistry 12. Section A: Mon. through Thurs., 9:10 A.M.; section B: Mon. through Thurs., 6:10 P.M.
- 123 *Strength of Materials* (3) Greenshields and Staff  
Tension, compression, shear, flexure, and torsion; deflection; combined and working stresses. Prerequisite: Civil Engineering 22. Section A: 11:10 A.M. to 12:10 P.M.; section B: Mon., Wed., and Fri., 6:10 to 8:00 P.M.
- 141 *Graphics Statics* (3)  
Fundamental principles; analysis of beams, determination of stresses in roof trusses and framed bents. Prerequisite: Civil Engineering 123. Drafting room fee, \$1. Lecture: Mon., Tues., Wed., and Fri., 1:10 P.M. Drawing room—Wed. and Fri., 2:10 to 5:00 P.M.

## SECOND SESSION

- 26 *Engineering Materials* (2) Kabelac, \_\_\_\_\_  
Metallic materials, with emphasis on iron and steel. Prerequisite or concurrent registration: Chemistry 12. Section A: Mon. through Thurs., 9:10 A.M.; section B: Mon. through Thurs., 6:10 P.M.

- 136 *Hydraulics* (3) Kabelac and Staff  
Hydraulics; flow through pipes and open channels; laminar and turbulent flow. Prerequisite: Civil Engineering 22. Section A: 11:10 A.M. to 12:10 P.M.; section B: Mon., Wed., and Fri., 6:10 to 8:00 P.M.
- 140 *Materials and Hydraulics Laboratory* (2) \_\_\_\_\_  
Determination of the properties of materials by mechanical tests, and a study of the flow of fluids. Prerequisite: Civil Engineering 123 and 136; prerequisite or concurrent registration: Civil Engineering 20. Laboratory fee, \$6. Section A: Tues. and Thurs., 1:10 to 4 P.M.; section B: Wed. and Fri., 1:10 to 4 P.M.
- 142 *Bridge Stresses* (3) Walther  
Determination of stresses in modern types of bridge trusses. Prerequisite: Civil Engineering 141. Drafting-room fee, \$1. Lecture: Mon., Tues., Wed., and Fri., 1:10 P.M. Drawing room—Wed. and Fri., 2:10 to 5:00 P.M.

#### FIFTEEN-WEEK TERM

- 21-22S *Analytical Mechanics: Statics and Dynamics* (2-3) The Staff  
Composition and resolution of forces, axial stresses, centroids, friction. Kinematics of a particle; kinetics of a body in translation, rotation, and plane motion; work and energy; impulse and momentum. This course may not be entered in the second term. Credit will not be given until the work of both terms has been completed. Prerequisite: Physics C; prerequisite or concurrent registration: Mathematics 20. 1:10 A.M.

#### ECONOMICS \*

##### FIRST SESSION

- 1 *Introductory Economics* \* (3) Watson, \_\_\_\_\_  
Survey of the major economic institutions and economic problems in contemporary society. Section A: 9:10 A.M.; section B: 6:10 P.M.
- 2X *Introductory Economics* \* (3) Burns  
Continuation of Economics I. 10:10 A.M.
- 101 *Economic Theory* (3) Watson  
Introduction to formal economic theory; advanced analysis of demand, supply, and price relations. 1:10 A.M.
- 105 *Business Cycles* (3) Burns  
Analysis of strategic factors in economic instability and economic recession; waves of second business cycle theory. 9:10 A.M.

\* Economics 1-2 is prerequisite to all other courses in economics.

- 121 *Money and Banking* (3) Miller  
Money, bank credit, and prices; commercial and investment banking; banking systems; history; development of banking; government and banking; functions of money and banking. Section A: 11:00 P.M.; section B: 6:10 P.M.
- 166x *Comparative Systems of Economic Reform* (3) Watson  
Critical analysis of the major theories of economic and social reform, with special attention to their origins and background. 11:11 A.M.
- 181 *International Economics* (3) Miller  
Survey of world economic background; resource controls; international trade; industrial, financial, and monetary processes and policies; relation to internal economic systems. 7:11 P.M.
- 205 *Business Cycle Theory* (3) Burns  
Business cycle theory before Keynes. Mon. and Wed., 6:11 P.M.

SECOND SESSION

- 1x *Introductory Economics*\* (3) Kerr  
Survey of the major economic institutions and economic problems in contemporary society. 1:11 A.M.
- 2 *Introductory Economics*\* (3) Kerr, \_\_\_\_\_  
Continuation of Economics 1. Section A: 9:11 A.M.; section B: 6:11 P.M.
- 101x *Economic Theory* (3) Kerr  
Introduction to formal economic theory; advanced analysis of demand, supply, and price relations. 6:11 P.M.
- 122 *Money and Banking* (3) Hanchett  
Continuation of Economics 121. Section A: 11:11 P.M.; section B: 6:11 P.M.
- 144 *Labor Movements* (3) \_\_\_\_\_  
Survey of growth and types of labor unions, development and problems of collective bargaining. 9:11 A.M.
- 182 *International Economics* (3) \_\_\_\_\_  
Continuation of Economics 181. 7:11 P.M.
- 260 *Theory of Public Finance* (3) Hanchett  
Survey of the literature on public finance, with special attention to controversial issues. Mon. and Wed., 7:11 P.M.

\* Economics 1-2 is prerequisite to all other courses in economics.

## EDUCATION

## FIRST SESSION

- 109 *Learning and Teaching* (3) Hoppe  
Theory and principles of learning, with emphasis upon understanding the learner. Study of actual learning situations. Mon. through Thurs., 8:00 A.M.; field work: four hours to be arranged.
- 121 *School and Society* (3) Jarman  
The local, national, and international roles of education; cooperation of the school with other community agencies. Mon. through Thurs., 9:10 A.M.; field work: four hours to be arranged.

## SECOND SESSION

- 110 *Learning and Teaching* (3) Ruffner  
Implications of the principles of learning and teaching, emphasis upon the techniques of studying children through practice situations. Mon. through Thurs., 9:10 A.M.; field work: four hours to be arranged.
- 122 *School and Society* (3) Root  
Organization and operation of schools, principles and functions. Mon. through Thurs., 8:10 A.M.; field work: four hours to be arranged.

## PRE-SESSION

June 14 to July 2

- 219 *Elementary Education* (3) Hankamp  
Review of recent literature and practices; particular attention to *Education for All American Children*, the recent report of the Educational Policies Commission. 9:10 to 11:00 A.M.; conference hour—11:10 A.M.
- 255 *Secondary Education* (3) Hull  
Review of recent literature and practices; particular attention to *Education for All American Youth*, the recent report of the Educational Policies Commission, and *General Education in a Free Society*, the Harvard Committee. 9:10 to 11:00 A.M.; conference hour—11:10 A.M.
- 271 *The American School System* (3) \_\_\_\_\_  
Organization of public education, sources of school revenue, influences of national and state agencies; local administrative units, the chief legal controls, criteria of building administration; responsibilities of teachers. 9:10 to 11:00 A.M.; conference hour—11:10 A.M.

## SPECIAL SIX-WEEK SESSION

July 6 to August 13

- 115 *Elementary School Classroom Procedures* (3) Barnes  
Determination of children's needs and interests, providing for individual differences, evaluation of classroom practices. 8:00 to 9:00 A.M.; conference hours—Mon. and Wed., 10:20 A.M.



- 125 *Corrective Procedures in Reading* (3) Hilder  
Study of level, needs, materials, and corrective methods. Demon-  
strations and observations with clinic cases. 9:15 to 11:15 A.M.;  
conference hours—Tues. and Thurs., 1:20 A.M.
- 207 *Curriculum Planning* (3) Hoppe  
Relation of course of study to the curriculum, major factors in de-  
veloping course of study construction, analysis of procedures, review of  
typical published courses, application to the student's own situation.  
11:30 A.M. to 12:30 P.M.; conference hours—Tues. and Thurs., 9:15  
A.M.
- 209 *Child Growth and Development* (3) Hoppe  
Basic factors in human growth and development and their relation  
to learning and teaching. 1:20 to 11:20 A.M.; conference hours—  
Mon. and Wed., 9:15 A.M.
- 218 *Social Foundations of Education* (3) Jarman  
A study of the forces that shape the policies and activities of the  
school. 8:00 to 9:00 A.M.; conference hours—Tues. and Thurs., 1:15  
A.M.
- 223 *Use of Community Resources by Schools* (3) Eaves  
Surveying the community, classroom use of materials; planning and  
conducting excursions; discussion of community experiences. Mon.  
and Wed., 6:45 to 9:00 P.M.; conference hours—Mon. and Wed., 6:00  
P.M.
- 231 *Secondary School Classroom Procedures* (3) Bish  
Survey of current classroom practices with particular attention to  
teaching aids, review of recent literature. 9:15 to 11:15 A.M.; con-  
ference hours—Mon. and Wed., 10:20 A.M.
- 272 *School Supervision* (3) Fox  
Nature, organization, human relationships, and techniques. 10:20 to  
11:20 A.M.; conference hours—Tues. and Thurs., 9:15 A.M.
- 279 *Adult Education* (3) Bish  
Nature, extent, and organization of programs in adult education.  
Tues. and Thurs., 6:40 to 9:00 P.M.; conference hours—Tues. and  
Thurs., 6:00 P.M.
- 285 *Extra-classroom Activities* (3) Root  
Home-room functions, student self-government, clubs, assemblies,  
school publications. 11:30 A.M. to 12:30 P.M.; conference hours—  
Tues. and Thurs., 10:20 A.M.
- 295 *Educational Research Methods and Procedures* (3) Fox  
Required of all Master's candidates following Plan 2. 1:00 to 2:00  
P.M.; conference hours—Mon. and Wed., 2:10 P.M.
- 299-300 *Thesis* (3-3) The Staff

## POST-SESSION

August 16 to September 3

- 211 *Evaluation in Education* (3) Ruffner  
Nature, functions, and techniques. 11:15 A.M. to 1:00 P.M.; conference hour—10:15 A.M.
- 220 *The Modern Elementary School* (3) Tuttle  
Historical development, current organization, comparison with other countries. 9:10 to 11:00 A.M.; conference hour—11:10 A.M.
- 256 *Secondary Education* (3) Root  
Current problems in each of the subject-matter fields. 10:10 to 12:00 A.M.; conference hour—9:10 A.M.

## ELECTRICAL ENGINEERING

## FIRST SESSION

- 9 *Elements of Electrical Engineering* (3) Akers  
Magnetic and electrical circuits, and direct current instruments and machines. Prerequisite: Physics 7; prerequisite or concurrent registration: Mathematics 2. Section A: 11:15 A.M. to 12:15 P.M.; section B: 6:15 to 7:15 P.M.
- 13 *Electrical Laboratory* (2) The Staff  
For the student not majoring in electrical engineering. Experiments in direct and alternating currents and direct and alternating current machinery. Prerequisite: Electrical Engineering 10. Laboratory fee, \$6 a term. Section A: Mon. and Thurs., 1:15 P.M.; section B: Tues. and Fri., 1:15 P.M.; section C: Mon. and Thurs., 8:15 P.M.
- 105 *Direct Current Laboratory* (2) The Staff  
For the student majoring in electrical engineering. A course in the measurements and direct current dynamo laboratory. Prerequisite: Electrical Engineering 9-10. Laboratory fee, \$6. Section A: Mon. and Thurs., 1:15 P.M.; section B: Tues. and Fri., 1:15 P.M.; section C: Mon. and Thurs., 8:15 P.M.
- 107 *Alternating-Current Circuits* (3) Antel  
Alternating current circuit theory. Extensive consideration is given to harmonic analysis and to the study of harmonics in both single phase and polyphase circuits. Prerequisite: Electrical Engineering 10. 6:15 to 7:15 P.M.
- 111 *Electrical Measurements* (2) Antel  
Theory of direct-current and alternating-current instruments, bridges, and meters. Prerequisite or concurrent registration: Electrical Engineering 107. Mon. through Thurs., 7:15 P.M.

- 133 *Alternating Current Laboratory (2)* The Staff  
A continuation of Electrical Engineering 125-5, with experiments on alternating current circuits, instruments, and machinery. Prerequisite: Electrical Engineering 127 and 128. Laboratory fee, \$6. Section A: Mon. and Thurs., 1:10 P.M.; section B: Tues. and Fri., 1:10 P.M.; section C: Mon. and Thurs., 8:10 P.M.

## SECOND SESSION

- 10 *Elements of Electrical Engineering (3)* Ames  
Alternating current circuits, instruments, and machines. Prerequisite: Electrical Engineering 9. Section A: 11:10 A.M. to 12:10 P.M.; section B: 6:10 to 7:10 P.M.
- 14 *Electrical Laboratory (2)* The Staff  
Same as Electrical Engineering 13. Laboratory fee, \$6. Section A: Mon. and Thurs., 1:10 P.M.; section B: Tues. and Fri., 1:10 P.M.; section C: Mon. and Thurs., 8:10 P.M.
- 106 *Direct-Current Laboratory (2)* The Staff  
Same as Electrical Engineering 125. Laboratory fee, \$6. Section A: Mon. and Thurs., 1:10 P.M.; section B: Tues. and Fri., 1:10 P.M.; section C: Mon. and Thurs., 8:10 P.M.
- 108 *Alternating Current Machinery (3)* Meye  
Synchronous generators and motors, transformers, and mercury arc rectifiers. Prerequisite: Electrical Engineering 127. 6:10 to 7:10 P.M.
- 112 *Electrical Measurements (2)* Meye  
Continuation of Electrical Engineering 111. Mon. and Thurs., 7:10 P.M.
- 118 *Advanced Network Theory I (3)* \_\_\_\_\_  
Theory of linear networks and transmission lines, including wave theory, at all frequencies. Prerequisite: Electrical Engineering 127. 5:10 to 6:10 P.M.
- 120 *Advanced Network Laboratory I (2)* \_\_\_\_\_  
A laboratory course associated with Electrical Engineering 118-19. Laboratory fee, \$6. Tues. and Fri., 8:10 P.M.
- 134 *Alternating Current Laboratory (2)* The Staff  
Continuation of Electrical Engineering 133. Laboratory fee, \$6. Section A: Mon. and Thurs., 1:10 P.M.; section B: Tues. and Fri., 1:10 P.M.; section C: Mon. and Thurs., 8:10 P.M.

## ENGLISH \*

## FIRST SESSION

- A *English Practice (3)* The Staff  
Instruction, drill, and exercises in grammar, vocabulary, spelling, and mechanics in reading, instruction and exercises in composition and reading. This course is designed to prepare students for English 1. Section A: 9:10 A.M.; section B: 6:10 P.M.

\* English 1-2 is prerequisite to English 31-32, 41-42, and 61-62.

- 1 *Freshman English*\* (3) The Staff  
Review of grammar, exercises in composition, study of prose. Section A: 8:15 A.M.; section B: 9:15 A.M.; section C: 10:15 A.M.; section F: 6:15 P.M.
- 2X *Freshman English* (3) The Staff  
Continuation of English 1. Section A: 8:15 A.M.; section B: 9:15 A.M.; section C: 10:15 A.M.; section D: 11:15 A.M.; section G: 7:15 P.M.
- 9 *Sophomore Composition* (3) Nichols  
A study of types of expository writing with weekly exercises. Prerequisite: English 1-2. 9:15 A.M.
- 10X *Sophomore Composition* (3) Nichols  
A study of the modern short story, with exercises in narrative writing. Prerequisite: English 1-2. 10:15 A.M.
- 51 *Introduction to English Literature* (3) Shepard, Stone  
A historical survey. Section A: 8:15 A.M.; section B: 6:15 P.M.
- 71 *Introduction to American Literature* (3) Coberly  
A historical survey. Section A: 10:15 A.M.; section B: 7:15 P.M.
- 91 *Introduction to European Literature* (3) Shepard  
Consideration of various types. 9:15 A.M.
- 125 *The Evolution of Modern Speech* (3) Stone  
The development of the English language in a historical treatment of English grammar. 5:15 P.M.
- 140X *The Seventeenth Century* (3) Linton  
Milton. Prerequisite: English 51-52, 71-72, or 91-92. 11:15 A.M.
- 152X *The Romantic Movement* (3) Linton  
Prerequisite: English 51-52, 71-72, or 91-92. 8:15 A.M.
- 162X *Victorian Literature* (3) Shepard  
Poetry from 1830 to 1890. Prerequisite: English 51-52, 71-72, or 91-92. 10:15 A.M.
- 165 *Contemporary British Literature* (3) Linton  
Poetry, prose, and drama since 1900. Prerequisite: English 51-52, 71-72, or 91-92. 9:10 A.M.
- 176X *The American Novel* (3) Coberly  
Chronological development of fiction from the beginnings through the 1920's. 11:10 A.M.
- 222X *The Age of Chaucer* (3) Stone  
Mon. and Thurs., 7:00 to 10:00 P.M.

\* Students registered in English 1 are tested in the minimum essentials of standard usage, vocabulary, writing skill, and reading speed and comprehension. Those students who show marked superiority may be exempted from one or both terms of the Freshman English course; those who show deficiencies will be assigned to English A.



## SECOND SESSION

- A *English Practice* (3) The Staff  
Section A 8:15 A.M.; section B 7:15 P.M.
- 1X *Freshman English\** (3) The Staff  
Reading of selections, exercises in composition, study of literary history.  
Section A 8:15 A.M.; section C 1:15 A.M.; section G 7:15 P.M.
- 2 *Freshman English* (3) The Staff  
Composition of English 1. Section A 8:15 A.M.; section H 9:15 A.M.; section C 1:15 A.M.; section D 11:15 A.M.; section F 6:15 P.M.
- 9X *Sophomore Composition* (3) Howard  
A study of types of expository writing with weekly exercises. Prerequisite: English 1-2. 1:15 A.M.
- 10 *Sophomore Composition* (3) Howard  
A study of the English short story, with exercises of narrative writing. Prerequisite: English 1-2. 2:15 A.M.
- 52 *Introduction to English Literature* (3) Reising, Teeter  
A historical survey. Section A 8:15 A.M.; section B 6:15 P.M.
- 72 *Introduction to American Literature* (3) Cole, Bolwell  
A historical survey from the Civil War to the present day. Section A 1:15 A.M.; section B 7:15 P.M.
- 92 *Introduction to European Literature* (3) Vonenky  
A classification of various types. 9:15 A.M.
- 129X *Elizabethan Nondramatic Literature* (3) Tupper  
Non-dramatic literature from 1485 to 1603. Prerequisite: English 51-52, 71-72, or 91-92. 9:15 A.M.
- 142 *The Neoclassical Movement* (3) Teeter  
Poetry and prose from 1660 through the mid-eighteenth century. Prerequisite: English 51-52, 71-72, or 91-92. 7:15 P.M.
- 175X *The American Drama* (3) Cole  
Reading and analysis of significant plays, from the beginnings to the present day. 11:10 A.M.
- 178 *Recent American Literature* (3) Bolwell  
Modern trends and important writers of the 1920's and 1930's. Fiction and drama (including motion pictures). 6:15 P.M.
- 183X *The English Drama* (3) Tupper  
Concerned principally with the drama of Shakespeare's contemporaries. 10:10 A.M.

\* Students, transferred to English 1 are tested in the minimum essentials of standard idiom, vocabulary, writing skill, and reading speed and comprehension. Those students who show marked superiority may be exempted from one or both terms of the Freshman English course; those who show deficiencies will be assigned to English A.

## GEOGRAPHY

## FIRST SESSION

- †1 *Elements of Geography* (3) \_\_\_\_\_  
World survey of the man-environment relationship—the physical environment. 10:10 A.M.
- 103 *Caribbean America* (3) \_\_\_\_\_  
Central America and Mexico; the Caribbean Islands—physical, political, economic, and regional survey. 6:10 P.M.
- 111 *Economic Geography* (3) \_\_\_\_\_  
Description of the geographical environment, distribution and economic activities of foods, raw materials, and fuels, commerce and manufacturing. 8:10 A.M.
- 275 *Geographic Factors in American Foreign Policy* (3) Keenle  
A study of the physical and human environment as they affect international relations with other nations. Tues. and Thurs., 7:10 to 8:40 A.M.

## SECOND SESSION

- 2 *Elements of Geography* (3) \_\_\_\_\_  
World survey of the man-environment relationship—the cultural environment. 10:10 A.M.
- 102 *South America* (3) \_\_\_\_\_  
Physical, political, economic, and regional survey of South America. 6:10 P.M.
- 112 *Economic Geography* (3) \_\_\_\_\_  
Regional economic geography of the world. 8:10 A.M.

## GERMAN

## FIRST SESSION

- †1 *First-year German* (3) Rogers, Schitt  
The elements of German grammar; translation of easy prose. Section A: 10:10 A.M.; section B: 6:10 P.M.
- 2X *First-year German* (3) Rogers  
Continuation of German I. 9:10 A.M.
- †3 *Second-year German*† (3) Rogers, Schitt  
Sections from modern German prose, review of grammar. Prerequisite: German 1-2 or two years of high school German. Section A: 10:10 A.M.; section B: 7:10 P.M.

† A dagger preceding an odd-numbered course indicates that it is the first half of a full-year course; the second half of which must be completed before credit is allowed.

† Beginning with the 1948 summer term, German 5-6 is changed to German 3-4.

- 4x *Second-year German* (3) Cokenias  
Continuation of German 3. 8:15 A.M.

## SECOND SESSION

- 2 *First-year German* (3) Legner, Cokenias  
The essentials of German grammar, translation of each page. Section A: 10:10 A.M.; section B: 6:15 P.M.
- †3x *Second-year German*† (3) Legner  
Selections from modern German prose, review of grammar. Prerequisite: German 1, 2 or two years of high school German. 9:15 A.M.
- 4 *Second-year German* (3) Legner, Cokenias  
Continuation of German 3. Section A: 11:15 A.M.; section B: 7:15 P.M.

## HISTORY

## FIRST SESSION

- 39 *The Development of European Civilization to 1500* (3) Kayser  
Primarily for freshmen. The political, social, economic, and cultural history of the Old World from ancient times through the Middle Ages. 7:00 A.M.
- 40x *The Development of European Civilization since 1500* (3) ———  
Primarily for freshmen. The political, social, economic, and cultural history of the Old World from the Age of Exploration to the present. 8:00 A.M.
- 130x *Nationalism* (3) Kayser  
The historical evolution of modern nationalism. 9:15 A.M.
- 161 *Latin American Civilization* (3) Wilgus  
Development of political, economic, social, and institutional affairs of the Ibero-American colonies. 6:15 P.M.
- 162x *Latin American Civilization* (3) Wilgus  
Development of political, economic, social, and institutional affairs of the Ibero-American nations since independence. 7:15 P.M.
- 181 *Diplomatic History of the United States* (3) Merriman  
Tendencies toward isolation, expansion, and intervention; domestic world power conflict and their settlement; and the evolution of the American secretaries of state and diplomatic agents to the Civil War. 1:15 A.M.

† A dagger preceding an odd-numbered course indicates that it is the first half of a two-year course, the second half of which must be completed before credit is allowed.

‡ Beginning with the 1948 summer term, German 3-6 is changed to German 1-4.

- 182X *Diplomatic History of the United States* (3) Merriman  
Tendencies toward isolation, expansion, and collectivism; disputes with  
foreign countries and their settlement; and the activities of the Ameri-  
can secretaries of state and diplomatic agents; since the Civil War.  
11:10 A.M.
- 199 *Proseminar: The Literature and Method of History* (3) The Staff  
Hours to be arranged.
- 239 *Seminar in European Expansion* (3) Wilgus  
Latin America. Mon. and Wed., 8:00 to 10:00 P.M.
- 281 *Seminar in the Diplomatic History of the United States* (3) Merriman  
Thurs. and Thurs., 8:00 to 10:00 P.M.
- 291 *Seminar* (3) The Staff  
Hours to be arranged.
- 299 *Thesis* (3) The Staff  
For candidates for the Master's degree in history.

## SECOND SESSION

- 71X *The Development of American Civilization* (3) Younger  
Primarily for undergraduates. The political, social, economic, and cultural  
forces of the United States in their world setting from 1492 to 1865.  
7:00 A.M.
- 72 *The Development of American Civilization* (3) Younger  
Primarily for undergraduates. The political, social, economic, and cultural  
forces of the United States in their world setting from 1865 to the  
present. 8:00 A.M.
- 142 *Modern Imperialism* (3) Ragatz  
Asia and the Pacific Basin in the nineteenth and twentieth centuries.  
6:10 P.M.
- 147X *Economic History of Europe* (3) Ragatz  
A survey from ancient times to the present day. 11:10 A.M.
- 174 *Economic History of the United States* (3) Gray  
Main trend in the development of American agriculture, industry, and  
trade since 1777, with emphasis on tendencies and problems since the  
Civil War. 1:01 A.M.
- 175X *Representative Americans* (3) Gray  
A biographical approach to national history. Some fifty significant and  
pivotal personalities in the development of the United States in gov-  
ernment, business, education, science, religion, journalism, the arts, and  
social reform. 9:10 A.M.



- 200 *Proseminar: The Literature and Method of History* (3) The Staff  
Hours to be arranged.
- 240 *Seminar in European Expansion* (3) Ragatz  
Modern Imperialism. Mon. and Wed., 8:00 to 10:00 P.M.
- 272 *Seminar in the Social History of the United States* (3) Gray  
Tues. and Thurs., 8:00 to 10:00 P.M.
- 292 *Seminar* (3) The Staff  
Hours to be arranged.
- 300 *Thesis* (3) The Staff  
For candidates for the Master's degree in History.

## LAW

## FIRST SESSION

- 111 *Contracts* (4) Merrifield, ———  
Promissory obligation; offer and acceptance; consideration; statute of frauds; formal instruments; rights of third parties; assignments and third obligation; conditions; performance; discharge. Section A: Mon., Wed., Thurs. and Fri., 12:00 to 12:50 P.M.; Tues. and Thurs., 9:00 to 10:50 A.M.; section B: Mon. through Thurs., 5:50 to 7:30 P.M.
- 123 *Criminal Law* (4) Cooper  
Elements of criminal liability; specific crimes; qualifications of persons in crime; criminal procedure. Ten weeks, June 2 to August 7. Mon., Wed., and Fri., 9:00 to 10:50 A.M.
- 213 *Constitutional Law* (4) Collier  
Historical introduction, including approach and methods; division of the separation of powers; powers of the National Government; the federal system; relation of the state courts and the federal courts. Mon. through Thurs., 5:50 to 7:30 P.M.
- 242x *Evidence* (4) \* Fryer  
Functions of court and jury; witnesses; hearsay; opinion; and circumstantial evidence; proof of authenticity; and contents of writings. Mon., Wed., and Fri., 12:00 to 12:50 P.M.; Wed., 11:00 to 11:50 A.M.; Tues. and Thurs., 9:00 to 10:50 A.M.
- 246x *Negotiable Instruments* (4) Oppenheim, Invernizzi  
Bills of exchange, promissory notes and checks, especially under the Negotiable Instruments Law. Section A: Mon., Wed., and Fri., 9:00 to 10:50 A.M.; Tues., 12:00 to 12:50 P.M.; Thurs., 11:00 to 11:50 A.M. Section B: Mon. through Thurs., 5:50 to 7:30 P.M.

311 *Business Associations I* (4)

Davison

Forms of business associations; legal requirements as to contributions of capital; powers and rights of corporations; corporate officers, directors, shareholders. Mon., Wed., and Fri., 9:00 to 11:50 A.M.; Tues., 12:00 to 12:50 P.M.; Thurs., 11:00 to 11:50 A.M.

315 *Conflict of Laws* (4)

Van Vleck

Study of cases involving foreign elements; principles of jurisdiction and limitations upon its exercise; procedure, torts, workmen's compensation, contracts, property, family law, administration of estates, business associations. Mon. through Thurs., 5:50 to 7:30 P.M.

352x *Public Utilities* (2)

Limits of regulation of business affected with public interest; ascertainment of value of property used for the public service and the fixing of adequate rates of return. Tues. and Thurs., 5:50 to 7:30 P.M.

356x *Sales* (2)

Intention to transfer of property interest (specific, unascertained and future goods); specification and appropriation; cash and conditional sales; C.O.D., F.O.B., and C.I.F. documents; negotiable bills of lading and warehouse receipts; trust receipts; lien on seller, retention of possession and bulk sales; remedies of seller and buyer, including suit for price, stoppage in transit, buyer's warranty inspection. Mon., Tues., and Fri., 11:00 to 11:50 A.M.; Thurs., 12:00 to 12:50 P.M.

## SECOND SESSION

133x *Property I* (4)

Jones, Eckhardt

Concepts of property, possession and ownership; legal relations with respect to chattels and documentary intangibles created by gift, sale, pledge, lien, bequest, etc. Section A: Mon. and Fri., 12:00 to 12:50 P.M.; Tues. and Thurs., 9:00 to 11:50 A.M.; Wed., 11:00 to 12:50 P.M. Section B: Mon. through Thurs., 5:50 to 7:30 P.M.

241x *Property III* (2)

Benson, Reno

Conveyance, rental document, profit, licenses, covenants running with the land, and recording. Section A: Tues. and Thurs., 9:00 to 11:50 A.M.; section B: Mon. and Tues., 5:50 to 7:30 P.M.

251x *Restitution* (4)

Legal remedies for restitution of benefits obtained or conferred by performance of contract, misrepresentation, mistake, and coercion. Mon. through Thurs., 5:50 to 7:30 P.M.

254 *Wills* (2)

Benson, Reno

Formation and revocation of wills; testate and intestate succession. Section A: Mon., Wed., and Fri., 12:00 to 12:50 P.M.; Wed., 11:00 to 11:50 A.M. Section B: Wed. and Thurs., 5:50 to 7:30 P.M.

327x *Insurance* (2)

Mon. and Tues., 5:50 to 7:30 P.M.

353X *Domestic Relations* (2)

Marriage, annulment, and divorce; rights of husband and wife; rights of parent and child; intestate; conflict of laws involving problems of marriage evasion and migratory divorce. Six weeks, August 9 to September 18. Mon., Wed., and Fri., 9:00 to 10:50 A.M.

361X *Creditors' Rights* (4)

Hanna

This course deals with the remedies of the unsecured creditors. The topics considered include judgments, transactions involving creditors' assignments, equity and statutory receiverships and bankruptcy. The general approach is that of law administration. Mon., Wed., and Fri., 9:00 to 10:50 A.M.; Tues. and Thurs., 11:00 to 11:50 A.M.

SIXTEEN-WEEK TERM—JUNE 2–SEPTEMBER 18

353S *Domestic Relations* (2)

Compton

Marriage, annulment, and divorce; rights of husband and wife; rights of parent and child; intestate; conflict of laws involving problems of marriage evasion and migratory divorce. Fri., 5:30–7:30 P.M.

## MATHEMATICS

## FIRST SESSION

3 *College Algebra* (3)

The Staff

Prerequisite: one year each of high school algebra and high school geometry. Section A: 8:10 A.M.; section B: 10:10 A.M.; section C: 7:10 P.M.

6X *Plane Trigonometry* (3)

The Staff

Prerequisite: two years of high school algebra and one year of high school geometry, or Mathematics 3. Section A: 9:10 A.M.; section B: 6:10 P.M.

12X *Analytic Geometry* (3)

The Staff

Prerequisite: Mathematics 6. Section A: 9:10 A.M.; section B: 10:10 A.M.; section C: 6:10 P.M.

19 *Differential Calculus* (3)

Nelson and Staff

Prerequisite: Mathematics 12. Section A: 8:10 A.M.; section B: 9:10 A.M.; section C: 7:10 P.M.

20X *Integral Calculus* (3)

Nelson and Staff

Prerequisite: Mathematics 19. Section A: 10:10 A.M.; section B: 11:10 A.M.; section C: 7:10 P.M.

111 *Mathematics for Engineers and Scientists* (3)

Nelson

Prerequisite: Mathematics 20. 8:10 A.M.

112X *Mathematics for Engineers and Scientists* (3)

Dribin

Prerequisite: Mathematics 111 or 112. 6:10 P.M.

123 *Theory of Equations* (3)

Mears

Prerequisite: Mathematics 20. 9:10 A.M.

## PHILOSOPHY

## FIRST SESSION

- 51 *Introduction to Philosophy* (3) Gauss  
An introduction to the problems of philosophy and to the history of ideas based on the work of modern classical philosophers. 11:10 A.M.
- 111 *History of Philosophy* (3) Gauss  
A history of philosophy in the western tradition from 600 B.C. to the Middle Ages. 6:10 P.M.
- 121 *Logic and Scientific Method* (3) Gauss  
An introduction to the study of formal logic. 11:10 A.M.

## SECOND SESSION

- 52 *Introduction to Philosophy* (3) Beck  
Continuation of Philosophy 51. Introduction to issues in the philosophy of science and social philosophy. 11:10 A.M.
- 112 *History of Philosophy* (3) Beck  
History of philosophy from the Renaissance to Kant. 6:10 P.M.
- 122 *Logic and Scientific Method* (3) Beck  
Continuation of Philosophy 121. Theories of induction, probability, and scientific method. 11:10 A.M.

## PHYSICS

## FIRST SESSION

- 55 *Physical Measurements* (2) Wiggins  
Theory and use of the methods of precise measurement in the several fields of physics. Prerequisite: Physics 6 and 7; prerequisite or concurrent registration: Mathematics 19. Material fee, \$6. Section A: Tues. and Thurs., 2:10 to 5:30 P.M.; section B: Wed. and Fri., 2:10 to 5:30 P.M.; section C: Mon., 2:10 to 5:30 P.M., and Sat., 9:10 A.M. to 12:30 P.M.
- 132x *Electronics* (3) Brown, Wales  
The phenomena of electron emission from solids; the physical properties of electron tubes, and the principles underlying their basic applications. Prerequisite: Physics 8 and 55, and Physics 125 or Electrical Engineering 10. Material fee, \$6. Lecture—Mon., Wed., Thurs. and Fri., 11:10 A.M. Laboratory—section A: Wed. and Fri., 2:10 to 4:30 P.M.; section B: Tues. and Thurs., 2:10 to 4:30 P.M.
- 133 *Electronics* (3) Brown  
A continuation of Physics 132. Includes basic radiofrequency applications of electron tubes, and special types of tubes such as klystrons, resonators, and magnetrons. Lectures and problems. Prerequisite: Physics 132; Electrical Engineering 101 and 118. Lecture—section A: 1:10 P.M.; section B: 6:10 P.M.



SECOND SESSION

8 *General Physics* \* (2)

Cheney

The experimental evidence concerning the nature of light, electricity, and matter; practical development of modern physics, such as X-ray apparatus, electron tubes, and radio. Prerequisite: Physics 6 and 7. Section A: Tues. through Fri., 2:10 P.M.; section B: Tues. through Fri., 5:10 P.M.

128 *Sound* (3)

Cheney

Production, propagation, and detection of sound waves; vibrations in sounding bodies; acoustic instruments and acoustic measurements. Prerequisite: Physics 8, Mathematics 2-3. 9:10 P.M.

FIFTEEN-WEEK TERM

6S *General Physics* \* (3)

Koehl, Meijer

Mechanics, wave-motion, sound, and the theory of optical instruments. Prerequisite: Physics 5; high school algebra and plane geometry. Material fee, \$6.

Section	Lecture	Recitation	Laboratory
L	.....T 11:1 am.....Th	9:10 am.....Th	10:10 am-12:30 pm
N	.....T 6:1 pm.....S	9:10 am.....S	10:10 am-12:30 pm
P	.....T 11:1 am.....M	1:10 pm.....M	2:10 pm-4:30 pm
Q	.....T 11:1 am.....Th	2:10 pm.....T	2:10 pm-4:30 pm
R	.....T 11:1 am.....W	1:10 pm.....W	2:10 pm-4:30 pm
S	.....T 11:1 am.....Th	1:10 pm.....Th	2:10 pm-4:30 pm
T	.....T 11:1 am.....F	1:10 pm.....F	2:10 pm-4:30 pm
V	.....T 6:1 pm.....Th	7:10 pm.....Th	8:10 pm-1:30 pm
Y	.....T 6:1 pm.....Th	6:10 pm.....F	8:10 pm-1:30 pm

7S *General Physics* \* (3)

Koehl, Meijer

Elementary electricity and magnetism. Prerequisite: Physics 5, high school algebra and plane geometry. Material fee, \$8.

Section	Lecture	Recitation	Laboratory
N	.....Th 6:1 pm.....S	9:10 am.....S	10:10 am-12:30 pm
P	.....Th 11:1 am.....M	1:10 pm.....M	2:10 pm-4:30 pm
R	.....Th 11:1 am.....W	1:10 pm.....W	2:10 pm-4:30 pm
S	.....Th 11:1 am.....T	11:1 am.....Th	2:10 pm-4:30 pm
T	.....Th 11:1 am.....F	1:10 pm.....F	2:10 pm-4:30 pm
V	.....Th 6:1 pm.....T	7:10 pm.....T	8:10 pm-1:30 pm
Y	.....Th 6:1 pm.....T	6:10 pm.....Th	8:10 pm-1:30 pm

POLITICAL SCIENCE ‡

FIRST SESSION

9 *Government of the United States* ‡ (3)

Brewer, Torpey

Fundamental principles of political science and the organization of the Federal Government. Section A: 8:10 A.M.; section B: 6:10 P.M.

\* Physics 5, 6, 7, and 8 constitute the basic course in Physics. Students who have credit for high school physics from an accredited high school may omit Physics 5 as a prerequisite to Physics 6 and 7, provided they pass a qualifying examination given in June 1, 1948, at 7:00 P.M. in Corcoran Hall, Room 1.

‡ Political Science 9-10 is prerequisite to all other courses in Political Science.

- 193 *Readings in Psychology* (3) The Staff  
 Sequenced readings with conferences on specified topics in psychology. Open only to seniors with 18 or more credits in psychology with a quality point index of 3.00 or higher. Special permission of staff member under whom course is to be taken is necessary. Time to be arranged.
- 203 *Research in Psychology* The Staff  
 Hours and credits to be arranged.
- 205 *Field Work in Psychology* (3) The Staff  
 Supervised field work in agencies providing psychological service. Admission by permission of the Executive Officer of the Department. Hours to be arranged.
- 207 *Readings in Psychology for Graduate Students* (3) The Staff  
 Sequenced readings with conferences on specified topics in psychology. Time to be arranged.
- 226x *Seminar: Clinical Psychology of Childhood* (3) Taub  
 A study of behavior problems, personality disturbances, and mental disorders of children. Tues. and Thurs., 1:10 to 3:10 P.M.
- 227 *Seminar: Educational and Vocational Guidance* (3) Dreese  
 An introduction to the techniques of educational and vocational guidance and the application of these procedures in various types of guidance agencies. Tues. and Thurs., 7:10 to 9:10 P.M.
- 231 *Test Construction* (3) Hunt  
 The principles underlying test construction; statistical techniques in the construction, evaluation, and standardization of psychological, educational, and vocational tests. Prerequisite: a course in tests and measurements and a course in statistics. Mon. and Wed., 1:10 to 3:10 P.M.
- 299 *Thesis* (3) The Staff

## SECOND SESSION

- 1x *General Psychology* \* (3) Caldwell, Omwake  
 The fundamental principles underlying human behavior. Section A: 10:10 A.M.; section B: 6:10 P.M.
- 2 *Applied Psychology* (3) Lane  
 The applications of psychology in business, industry, medicine, law, guidance, education, and social problems. Section A: 1:10 P.M.; section B: 6:10 P.M.
- 116 *Abnormal Psychology* (3) Omwake  
 The causes, diagnosis, treatment, and prevention of the various types of maladjustments and mental disorders. Section A: 10:10 A.M.; section B: Mon., Wed., and Fri., 7:10 to 8:30 P.M.

\* Psychology 1 is prerequisite to all other courses in psychology.

- 144 *Personnel Psychology* (3) Lane  
The applications of psychology to personnel work in education, business, industry, and government. 2 P.M.
- 171x *Psychology of Personality* (3) Caldwell  
Contemporary approaches to the study of personality. 1 P.M.
- 194 *Readings in Psychology* (3) The Staff  
Supervised readings on specific topics in psychology, with conferences, for undergraduate majors. Open only to students with 18 or more credits in psychology with a quality point index of 2.0 or better. Special permission of staff member under whose course it is to be taken is necessary. Time to be arranged.
- 196 *History and Systems of Psychology* (3) Caldwell  
A survey of the contemporary schools of psychology. Prerequisite: 12 credits in psychology. 11:15 A.M.
- 204 *Research in Psychology* The Staff  
Hours and credits to be arranged.
- 206 *Field Work in Psychology* (3) The Staff  
Supervised field work in agencies providing psychological service. Admission by permission of the Executive Officer of the Department. Hours to be arranged.
- 208 *Readings in Psychology for Graduate Students* (3) The Staff  
Supervised readings with conferences on specific topics in psychology. Time to be arranged.
- 242 *Seminar: Psychological Principles of Personnel Management* (3) Leatherman  
A study of the applications of psychology to various personnel procedures, for those interested in either government or industrial personnel work. Prerequisite: Psychology 144 or the equivalent. Tues. and Thurs., 7:10 to 9:10 P.M.
- 300 *Thesis* (3) The Staff

## RELIGION

### FIRST SESSION

- 10x *New Testament* (3) Folkemer  
11:15 A.M.
- 101 *History of Religions* (3) Folkemer  
6:10 P.M.

## ROMANCE LANGUAGES \*

## FIRST SESSION

## French \*

- †1 *First-year French* (3) The Staff  
Grammar, translation, pronunciation. Section A: 9:10 A.M.; section B: 2:10 P.M.; section C: 6:10 P.M.
- 2x *First-year French* (3) The Staff  
Continuation of French 1. Section A: 10:10 A.M.; section B: 6:10 P.M.
- †3 *Second-year French* ‡ (3) The Staff  
Reading of modern French, grammar review, oral practice. Section A: 8:10 A.M.; section B: 7:10 P.M.
- 4x *Second-year French* ‡ (3) The Staff  
Continuation of French 3. Section A: 8:10 A.M.; section B: 7:10 P.M.
- †1C9 *Conversation and Composition* (3) The Staff  
Section A: 8:10 A.M.; section B: 6:10 P.M.
- 121 *Literature of the Seventeenth Century* (3) Percival  
History, philosophy, criticism, memoirs, letters, eloquence, drama, fiction, poetry. Class analysis of texts, collateral reading. 10:10 A.M.
- 135 *The Modern Novel* (3) Keating  
An intensive study of the characteristic novels of the nineteenth and twentieth centuries. Lectures, collateral reading, class discussion. 9:10 A.M.

## Spanish \*

- †1 *First-year Spanish* (3) The Staff  
Grammar, translation, pronunciation. Section A: 8:10 A.M.; section B: 2:10 P.M.; section C: 6:10 P.M.
- 2x *First-year Spanish* (3) The Staff  
Continuation of Spanish 1. Section A: 9:10 A.M.; section B: 7:10 P.M.
- †3 *Second-year Spanish* ‡ (3) The Staff  
Reading of modern Spanish, grammar review, oral practice. Section A: 10:10 A.M.; section B: 11:10 A.M.; section C: 6:10 P.M.
- 4x *Second-year Spanish* ‡ (3) The Staff  
Continuation of Spanish 3. Section A: 9:10 A.M.; section B: 7:10 P.M.
- †1C9 *Conversation and Composition* (3) Alonso, Hicks  
Section A: 8:10 A.M.; section B: 7:10 P.M.

\* A standardized placement examination will be required of all entering students who wish to continue or complete the language lesson in high school. Upon completion of the examination assessment will be made to the appropriate course, with credit to be assigned on the basis of course, the second half of which must be completed before credit is allowed.

† A dagger preceding an odd-numbered course indicates that it is the first half of a full-year course, the second half of which must be completed before credit is allowed.

‡ Beginning with the 1948 summer term, French 5-6 and Spanish 5-6 are changed to French 3-4 and Spanish 3-4.



- 121 *Spanish Literature of the Golden Age* (3) ———  
Cervantes, Lope de Vega, Calderon; the classic drama, fiction, the ballad, lyric poetry. Class analysis of texts, collateral reading, lectures on literature and history. 10:10 A.M.
- 129 *The Spanish American Novel* (3) Vázquez  
Development of the novel in Spanish America. Lectures, collateral reading, and class analysis of texts. 6:10 P.M.
- 130x *The Spanish American Novel* (3) Vázquez  
Continuation of Spanish 129. 7:10 P.M.
- 136x *The Modern Drama in Spain* (3) Alonso  
A study of selected plays with an appreciation of their social and literary significance. Lectures, collateral reading, class discussion. 9:10 A.M.

SECOND SESSION

French \*

- 2 *First-year French* (3) The Staff  
Continuation of French 1. Section A: 9:10 A.M.; section B: 2:10 P.M.; section C: 6:10 P.M.
- †3x *Second-year French* ‡ (3) The Staff  
Reading of modern French, grammar review, oral practice. Section A: 10:10 A.M.; section B: 6:10 P.M.
- 4 *Second-year French* ‡ (3) The Staff  
Continuation of French 3. Section A: 8:10 A.M.; section B: 7:10 P.M.
- 110 *Conversation and Composition* (3) The Staff  
Section A: 8:10 A.M.; section B: 6:10 P.M.
- 122 *Literature of the Seventeenth Century* (3) ———  
Continuation of French 121. 10:10 A.M.
- 136 *The Modern Drama* (3) Protzman  
Reading, analysis, and discussion of typical plays and dramatic trends of the nineteenth and twentieth centuries. Lectures, collateral reading, class discussion. 9:10 A.M.

Spanish \*

- 2 *First-year Spanish* (3) The Staff  
Continuation of Spanish 1. Section A: 8:10 A.M.; section B: 2:10 P.M.; section C: 6:10 P.M.

\* A standardized placement examination will be required of all entering students who wish to continue in college the following summer. Upper divisions of the examination assignment will be made in the appropriate French or Spanish section on the usual basis.

† A dagger preceding an entry indicates that it is the last half of a full-year course, the second half of which must be completed during the summer session.

‡ Beginning with the 1948 summer term, French 3-6 and Spanish 3-6 are changed to French 3-4 and Spanish 3-4.

- †3x *Second-year Spanish*\* (3) The Staff  
Reading of modern Spanish, grammar review, oral practice. Section A: 9:10 A.M.; section B: 7:10 P.M.
- 4 *Second-year Spanish*\* (3) The Staff  
Continuation of Spanish 3. Section A: 10:10 A.M.; section B: 11:10 A.M.; section C: 6:10 P.M.
- 110 *Conversation and Composition* (3) Supervia  
Section A: 8:10 A.M.; section B: 7:10 P.M.
- 122 *Spanish Literature of the Golden Age* (3) Eldridge  
Continuation of Spanish 121. 10:10 A.M.
- 135x *The Modern Novel in Spain* (3) Supervia  
An intensive study of the characteristic novels of the nineteenth and twentieth centuries. Lectures, collateral reading, class discussion. 9:15 A.M.

## SOCIOLOGY ‡

## FIRST SESSION

- 27 *Organization of Society* ‡ (3) Lavell  
The origin and development of culture, man's social nature, types of groups and social institutions, social processes, social change, and social control. Section A: 11:15 A.M.; section B: 6:15 P.M.
- 125 *Rural Sociology* (3) Geisert  
The origin and development of rural culture, types of rural communities, rural social institutions, social processes in rural life, present rural problems and rural planning. 10:10 A.M.
- 133 *The Family* (3) Geisert  
A study of the modern family, changing functions and roles of the family and its members, factors promoting disorganization, measures seeking to preserve the socially valuable functions of family life. 9:15 A.M.

## SECOND SESSION

- 28 *Problems of Society* (3) De Poistel  
The factors producing social change and social disorganization; an analysis of the problems arising from the disorganization of the individual and the family. Section A: 11:15 A.M.; section B: 6:15 P.M.
- 164 *Social Control* (3) De Poistel  
Informal and formal phases of human control; analysis of methods of control used in modern society and the situations in which they occur, policies and techniques of control. 10:15 A.M.

\* Beginning with the 1945 summer term, French 5-6 and Spanish 5-6 are changed to French 3-4 and Spanish 3-4.

† A student pursuing an interdisciplinary course indicates that it is the first half of a full-year course; the second half of which must be completed before credit is allowed.

‡ Sociology 27 is prerequisite to all other courses in sociology.

## SPEECH

## FIRST SESSION

- 21 *Principles of Effective Speaking* (3) Leggette and Staff  
Preparation and delivery of short informative speeches; developing confidence and poise, body and voice control; selecting and organizing material. Recording fee, \$1.50. Section A: 8:10 A.M.; section B: 9:10 A.M.; section C: 10:10 A.M.; section D: 6:10 P.M.
- 22x *Persuasive Speaking* (3) Stevens  
Special emphasis is placed on elementary principles of persuasion, the preparation and delivery of persuasive speeches. This course is a continuation of Speech 21, which is prerequisite. Recording fee, \$1.50. Section A: 8:10 A.M.; section B: 9:10 A.M.
- 11 *Training the Speaking Voice* (3) Pettit and Staff  
Developing ease, naturalness, and clarity in the speaking voice. Analysis of individual voice through recordings. Phonetic approach to the study of the sounds of English and the standards of speech. Recording fee, \$1.50. Section A: 10:10 A.M.; section B: 11:10 A.M.
- 12x *Oral Reading* (3) Leggette  
Reading to others; theory and practice of interpreting the printed page. Prerequisite: Speech 11. Recording fee, \$1.50. 10:10 A.M.
- 71 *Speech Clinic* Pettit and Staff  
Individual or group lessons, without academic credit, for such speech difficulties as lisping, cleft palate, articulatory problems, and stuttering. Fee: for individual lesson, \$5; for group lesson, \$1. Time to be arranged.
- 131 *Group Discussion and Conference Leadership* (3) Stevens  
The process of thinking and problem solving in consultation and small groups, and the methods of leading discussions and conferences. Prerequisite: six credit hours of speech. 11:10 A.M.
- 175 *Speech Correction* (3) Pettit  
A study of the disorders of speech including work in the diagnosis and treatment of defective speech. Prerequisite: Speech 11 and 131. Recording fee, \$3. 7:10 P.M.
- 178x *Clinical Practice* (1) Pettit  
Case work in remedial speech. This course may be repeated for a total of three credit hours. Prerequisite: Speech 175. Time to be arranged.

## SECOND SESSION

- 21x *Principles of Effective Speaking* (3) Henigan and Staff  
Preparation and delivery of short informative speeches; developing confidence and poise, body and voice control; selecting and organizing material. Recording fee, \$1.50. Section A: 8:10 A.M.; section B: 9:10 A.M.; section C: 6:10 P.M.



- 22 *Persuasive Speaking* (3) Roberts  
Special emphasis is placed on elementary principles of persuasion, the preparation and delivery of persuasive speeches. This course is a continuation of Speech 21, which is prerequisite. Recording fee, \$15.  
Section A: 8:10 A.M.; section B: 9:10 A.M.
- 12 *Oral Reading* (3)  
Reading to others: theory and practice of interpreting the printed page. Prerequisite: Speech 11. Recording fee, \$15. 11:1 A.M.
- 72 *Speech Clinic*  
Individual or group lessons, without academic credit, for such special difficulties as lisp, cleft palate, articulatory problems, and stuttering. Fee for individual lesson, \$5; for group lesson, \$1. Time to be arranged.
- 108 *Speeches for Special Occasions* (3) Roberts  
The preparation and presentation of speeches of introduction, presentation, acceptance, welcome, nomination, and eulogy. Prerequisite: Speech 21 and 22. 11:10 A.M.

## STATISTICS

### FIRST SESSION

- 51 *Elementary Statistics* (3) Weida, Morrow  
Collection of data, classification and tabulation, averages, construction and use of index numbers and quotients, dispersion, analysis of frequency distribution, time series, correlation, and graphs. Presentation. Prerequisite: the entrance unit in algebra. Laboratory fee, \$5. Lectures—section A: 1:15 A.M.; section B: 2:15 P.M. Laboratory—section M: Mon. and Wed., 2:00 to 3:30 P.M.; section N: Mon. and Wed., 8:00 to 9:30 P.M.; section P: Tues. and Thurs., 2:00 to 3:30 P.M.; section Q: Fri., 8:00 to 9:30 P.M.
- 528 *Mathematics of Finance* (3) Weida, Morrow  
Interest and discount, annuities, valuation of stocks and bonds, sinking funds, amortization, valuation of depreciable assets, depreciation, and loan amortization. Prerequisite: the entrance unit in algebra. Section A: 9:15 A.M.; section B: 7:15 P.M.
- \*115 *Principles of Statistical Methods* (3) Weida  
This course emphasizes the meaning, uses, and application of variates and attributes, measurement and enumeration, averages and dispersion, frequency distribution and their characteristics, errors of measurement and their control, index numbers, trends, cyclical relatives, purposive and random sampling in theory and practice with application. Prerequisite: the entrance unit in algebra. Laboratory fee, \$5. This is the first half of a 6 credit course. Except by special arrangement with the instructor, the second half, Statistics 116, must be completed before credit is allowed. Lecture—7:15 P.M.; laboratory—Tues. and Thurs., 8:00 to 9:30 P.M.

\* A dagger preceding an odd-numbered course indicates that it is the first half of a full-year course, the second half of which must be completed before credit is allowed.



- 117 *Analysis of Variance* (3) Morrow  
The analysis of variance and covariance to segregate factors producing significant variation; a method to estimate experimental error; multiple classification with unequal class frequencies. Prerequisite: Statistics 115-16. 6:10 P.M.

## SECOND SESSION

- 51x *Elementary Statistics* (3) Johnson, Abrams  
Collection of data, classification and tabulation, averages, construction and use of index numbers and quartiles, dispersion, analysis of frequency distribution, time series, correlation, and graphic presentation. Prerequisite: one entrance unit in algebra. Laboratory fee, \$5. Lecture—section A, 9:10 A.M.; section B, 7:10 P.M. Laboratory—section M: Mon. and Wed., 2:00 to 3:30 P.M.; section N: Mon. and Wed., 8:00 to 9:30 P.M.; section P: Tues. and Thurs., 2:00 to 3:30 P.M.; section Q: Fri., 8:00 to 1:30 P.M.
- 52 *Mathematics of Finance* (3) Johnson, Abrams  
Interest and discount, annuities, valuation of stocks and bonds, sinking funds, amortization, valuation of depletable assets, depreciation, building and loan associations. Prerequisite: one entrance unit in algebra. Section A, 1:10 A.M.; section B, 6:10 P.M.
- 116 *Principles of Statistical Methods* (3) Abrams  
Continuation of Statistics 115. Prerequisite: Statistics 115. Laboratory fee, \$5. Lecture—7:10 P.M.; laboratory—Tues. and Thurs., 8:00 to 9:30 P.M.
- 118 *Correlation and the Chi-Square Test* (3) Johnson  
Advanced study of simple, partial, and multiple correlation. Rank correlation, the method of continuity, and the problem of normal and non-normal populations. Tests of independence, likeness, and goodness of fit. Prerequisite: Statistics 115-16. 6:10 P.M.

## ZOOLOGY

## FIRST SESSION

- 1 *Introduction to Zoology* (4) Young, Grace  
An introduction to the study of the structure, functions, and relation of animals, and of the fundamental biological principles involved. Material fee, \$1.50. Lecture—section A, Mon. through Thurs., 1:10 P.M.; section B, Mon. through Thurs., 6:10 P.M. Laboratory—section S, Mon. through Thurs., 2:10 to 4:00 P.M.; section T, Mon. through Thurs., 7:10 to 9:00 P.M.
- 105 *Entomology* (3) Munson  
A study of the elementary morphology, physiology, and ecology of insects, with an introduction to the taxonomy of the more important groups. Prerequisite: Zoology 1-2, or the equivalent. Material fee, \$5. Lecture—Mon. and Wed., 2:10 P.M.; laboratory—Mon. through Thurs., 3:10 to 5:00 P.M.

- 137 *Histology* (3) Young  
An introduction to the microscopic anatomy of normal tissues and organs. Prerequisite: Zoology 2. Material fee, \$6. Lecture—Mon. and Wed., 5:40 p.m.; laboratory—Mon. through Thurs., 6:10 to 8:00 p.m.
- 141 *Comparative Vertebrate Anatomy* (3) Grace  
Lectures on the organ systems of the vertebrates; laboratory dissections of types. Prerequisite: Zoology 2. Material fee, \$6. Lecture—Mon. and Wed., 2:10 p.m.; laboratory—Mon. through Thurs., 3:10 to 5:00 p.m.
- 253 *Research* (3) The Staff  
Investigation of special problems. Hours to be arranged.
- 299 *Thesis* (3) The Staff

## SECOND SESSION

- 2 *Introduction to Zoology* (4) Mortensen and Staff  
Continuation of Zoology 1. Material fee, \$15. Lecture—section A, Mon. through Thurs., 1:10 p.m.; section B, Mon. through Thurs., 6:10 p.m.; lecture—section S, Mon. through Thurs., 2:10 to 4:00 p.m.; section T, Mon. through Thurs., 7:10 to 9:00 p.m.
- 142 *Comparative Vertebrate Anatomy* (3) Hansen  
Continuation of Zoology 141. Prerequisite: Zoology 2. Material fee, \$6. Lecture—Mon. and Wed., 2:10 p.m.; laboratory—Mon. through Thurs., 3:10 to 5:00 p.m.
- 144 *Introduction to Vertebrate Embryology* (3) Hansen  
The origin and early development of the individual and the formation of organ systems. Emphasis is placed on the frog, chick, and pig, with reference to the human embryo. Prerequisite: Zoology 2 and 141 or 142. Material fee, \$6. Lecture—Mon. and Wed., 6:10 p.m.; laboratory—Mon. through Thurs., 7:10 to 9:00 p.m.
- 254 *Research* (3) The Staff  
Investigation of special problems. Hours to be arranged.
- 300 *Thesis* (3) The Staff

SCHEDULE OF CLASSES

## HOURLY SCHEDULE OF CLASSES •

## FIRST SESSION †—JUNE 2 to JULY 26

## MORNING CLASSES

7-12	8-10	9-10	10-11	11-12
Bus Adm 145 Bus Adm 171 Geog 275 (TTh to 8:40) Hist 39 (at 7) Pol Sc 151	Biol 125 Bus Adm 51A Bus Adm 118x Chem 11K lab. (TWThF to 10) Ed 109 (MTWTh at 8) Eng 1A Eng 2xA Eng 51A Eng 152x Fr 3A Fr 4xA Fr 1-9A Geog 111 Ger 4x Hist 4-x (at 8) Math 3A Math 19A Math 111 ME 111 (MTThF 8:45 to 10)	Biol 1 lect. (TTh) Biol 1 trip (WF to 12) Bot 1A lect. (TWThF) Bus Adm 52xA Bus Adm 151A Chem 11L, rec. (TTh) Chem 21K lab. (TWThF to 12) Chem 151 lect. (AMWF) Chem 151K lab. (TTh to 12) CE 25A (MTWTh) Econ 1A Econ 105 E 121 (MTWTh) Eng A—sect. A Eng 1B Eng 2xB Eng 9 Eng 91 Eng 165 Fr 1A	Biol 1 lab. (TTh to 12) Bus Adm 155 Chem 11A lect. (TWThF) Chem 11L lab. (TWThF to 12) Econ 2x Econ 101 Eng 1C Eng 2xC Eng 10x Eng 71A Eng 162x Fr 2xA Fr 121 Geog 1 Ger 1A Hist 181 Math 3B Math 12xB	Bot 1B lect. (TWThF) Chem 11K rec. (TTh) Chem 151 lect. (AMWF) CE 2x (TWThF) CE 123A (to 12:10) Econ 102x EE 9A (to 12:10) Eng 2xD Eng 14x Eng 170x Ger 3A Hist 182x Math 2xB ME 14x (MTThF to 12:25) Phil 51 Phys 122x lect. (MWThF) Pol Sc 171 Psych 125 Religion 1x Soc 27A

\* Seminars and research courses for which hours are to be arranged, courses in the Law School, and the special sessions of the School of Education will be held under departmental arrangements.

† Classes meet Monday through Friday unless otherwise indicated.



FIRST SESSION—MORNING CLASSES (Continued)

7:10	8:10	9:10	10:10	11:10
	Pol Sc 9A Psych 1A Psych 116x Span 1A Span 159A Speech 11A Speech 22xA	Et 135 Ger 2x Hist 13x Mech 6xA Mech 12xA Mech 19B Mech 123 ME 13 (NITTEF) ME 131 (NITTEF) Phys 55C (S to 12 30) Pol Sc 10x Pol Sc 181 Psych 2x Sci 133 Span 2xA Span 4xA Span 156x Speech 21B Speech 218B Sci 52xA	Math 22xA Math 141 ME 125x (MIT 15F) Phil 121 Pol Sc 111 Psych 22x Psych 151A Sci 125 Span 5A Span 121 Speech 21C Speech 11A Speech 121 Stat 51A lect.	Span 1B Speech 11B Speech 131

## FIRST SESSION—AFTERNOON CLASSES

12:10	1:10	2:10	3:10
Bot 1B lab. (TWThF to 1) Chem 11B lect. (TWThF)	Bot 2X lect. (TWThF) Chem 11M lab. (TWThF to 3) Chem 21 lect. (TWThF) CE 141 lect. (MTWTF) Econ 121A EE 13A (MTh) EE 13B (TF) EE 135A (MTh) EE 135B (TF) EE 135A (MTh) EE 135B (TF) ME 115 (MTWTF to 4) Phys 133A Psych 1B Psych 220x (TTh to 3:10) Psych 211 (MW to 3:10) Zoo 1A lect. (MTWTh)	Bot 1A lab. (TTh to 4) Bot 2X lab. (MF to 4) Chem 21M lab. (TWThF to 5) Chem 151M lab. (TTh to 5) CE 141 lab. (WF to 5) Fr 1B Phys 55A (TTh to 5:30) Phys 55B (WF to 5:30) Phys 55C (M to 5:30) Phys 132A lab. (WF to 4:30) Phys 132B lab. (TTh to 4:30) Psych 191 (MTWTF to 4:30) Span 1B Stat 51M lab. (MW 2-3:30) Stat 51P lab. (TTh 2-3:30) Zoo 1S lab. (MTWTh to 4) Zoo 125 lect. (MW) Zoo 141 lect. (MW)	Chem 11M rec. (TTh) Zoo 105 lab. (MTWTh to 5) Zoo 141 lab. (MTWTh to 5)

## FIRST SESSION—EVENING CLASSES

5:10	6:10	7:10	8:10
Eng 125 Zoo 137 lect. (MW)	Bus Adm 51B Bus Adm 102x Bus Adm 151B Bus Adm 215 (TW) CE 25B (MTWTh) CE 123B (MTWTF to 8)	Bus Adm 52xB Bus Adm 115 Bus Adm 153 Econ 181 EE 111 (MTWTh) Eng 2XG	EE 13C (MTh) EE 135C (MTh) EE 135C (MTh) Hist 239 (MW 8-10) Hist 281 (TTh to 10) Pol Sc 240x (TTh)

5-10	6-10	7-10	8-10
<p>Elem 11B Elem 121B Elem 2-5 (MW) Elem 9B (6-7:10) Elem 117 (6-7:10) Elem A—lect B Elem 1F Elem 51B Elem 51C Elem 23B Elem 1-2B Elem 1-3 Elem 1B Elem 101 Math 63B Math 123C Math 112A Math 111 Math 113B Math 51B Math 1C Math 151B Math 111 Math 17B Math 1C Math 8C Math 129 Math 21D Math 51B 2-1 Math 117 Math 11B 6-7 (MTWTh) Math 117 lab (MTWTh to 8)</p>	<p>Elem 11B Elem 121B Elem 2-5 (MW) Elem 9B (6-7:10) Elem 117 (6-7:10) Elem A—lect B Elem 1F Elem 51B Elem 51C Elem 23B Elem 1-2B Elem 1-3 Elem 1B Elem 101 Math 63B Math 123C Math 112A Math 111 Math 113B Math 51B Math 1C Math 151B Math 111 Math 17B Math 1C Math 8C Math 129 Math 21D Math 51B 2-1 Math 117 Math 11B 6-7 (MTWTh) Math 117 lab (MTWTh to 8)</p>	<p>Elem 71B Elem 222X (MTTh 7-10) Elem 51B Elem 43B Elem 3B Elem 162X Math 8C Math 19C Math 23C Math 132X Math 117 Math 131 (MWF to 8:30) Math 227 (TTh to 9:10) Math 23B Math 43B Math 129B Math 132X Math 175 Math 533B Math 115 lect. Math 11 lab (MTWTh to 9)</p>	<p>Elem 281 (MW) Elem 51N lab. (MW 8-9:30) Elem 51Q lab. (F 8-10:30) Elem 115 lab. (TTh 8-9:30)</p>

## SECOND SESSION •—JULY 28 to SEPTEMBER 17

## MORNING CLASSES

7:10	8:10	9:15	10:15	11:15
Bus Adm 128 Bus Adm 165x Hist 71x (at 7) Pol Sc 127x	Bus Adm 52A Bus Adm 115x Chem 12K lab. (TWThF to 10) Ed 122 (MTWTh at 8) Eng 13A Eng 2A Eng 52A Fr 4A Fr 11A Geog 112 Hist 72 (at 8) Math 6A Math 22A Math 112 ME 112 (MTThF 8:45-10) Pol Sc 1A Span 2A Span 110A Speech 21x A Speech 22A	Bus 2 sec. (TTTh to 12) Bus 2 sec. (TWThF to 12) Bus 2A sec. (TWThF) Bus Adm 152A Chem 12L lab. (TTTh to 12) Chem 22K lab. (TWThF to 12) Chem 152K lab. (TWThF to 12) CE 2A (MTWTh) Eng 2A Eng 144 Ed 117 (MTWTh) Eng 2B Eng 10 Eng 92 Eng 129x Fr 2A Fr 186 Ger 3x Hist 175x Math 12A Math 19xA Math 22B ME 14 (MTThF) ME 132 (MTThF)	Bus 2 sec. (TTTh to 12) Bus Adm 51xA Bus Adm 114x Chem 12A lab. (TWThF to 12) Chem 12L lab. (TWThF to 12) Ec 11x Eng A—sect. A Eng 18C Eng 2C Eng 9x Eng 72A Eng 181x Fr 38A Fr 122 Geog 2 Ger 2A Hist 174 Math 6B Math 19xB Math 132 ME 131x (MTThF) Ph 122 Pol Sc 112 Psych 18A Psych 110A	Bus 2B sec. (TWThF) Chem 12K lab. (TTTh) CE 18xA (to 12:10) Ed 1A (to 12:10) Eng 2D Eng 175x Ger 4A Hist 147x Math 38A Pol Sc 2 Psych 106 Soc 25A Span 4B Speech 12 Speech 18

• Classes meet Monday through Friday unless otherwise indicated.



SECOND SESSION—MORNING CLASSES (Continued)

7:10	8:10	9:10	10:10	11:10
		<p>Phil 98 Phil 98 182 Span 33A Span 135A Speech 21xB Speech 22B Stat 51xA lect.</p>	<p>Stat 164 Span 4A Span 122 Stat 52A</p>	
SECOND SESSION—AFTERNOON CLASSES				
12:10	1:10	2:10	3:10	
<p>Bot 2B lab. (TWTThF to 1) Chem 12B lect. (TWTThF)</p>	<p>Chem 12M lab. (TWTThF to 3) Chem 22 lect. (TWTThF) Chem 132 lect. (TWTThF) CE 14-A (TTh to 4) CE 14-B (WF to 4) CE 142 lect. (MTWTF) Econ 122A EE 14A (MTTh) EE 14B (TF) EE 14C (MTTh) EE 14D (TF) EE 14E (MTTh) EE 14F (TF) EE 14G (MTTh) EE 14H (TF) ME 116 (MWF to 4) Psych 2A Psych 171A Zoon 2A lect. (MTWTF)</p>	<p>Bot 115x lect. (MW) Bot 115x lab. (TTh to 4) Bot 2A lab. (TTh to 4) Chem 12N res. (TTh) Chem 22M lab. (TWTThF to 5) Chem 152M lab. (TWTThF to 5) CE 142 lab. (WF to 5) Phys 8A (TWTThF) Psych 144 Stat 2B Stat 51xM lab. (NW 2-3) Stat 51xP lab. (Th 2-3) Zoon 2S lab. (MTWTh to 4) Zoon 142 lect. (MW)</p>	<p>Biol 115x lab. (MF to 5) Chem 12M res. (TTh) Chem 12N lab. (TWTThF to 5) Zoon 142 lab. (MTWTh to 5)</p>	

## EVENING CLASSES

5:10	6:10	7:10	8:10
EE 118 (to 6:10) Phys 8B (TWTuF)	Bus Adm 52B Bus Adm 152B Bus Adm 291x (TW) CE 26B (MTWTh) CE 136B (MWF to 8) Econ 2B Econ 141x Econ 122B EE 108 (to 7:10) EE 108 (to 7:10) Eng 2F Eng 52B Eng 178 Fr 2C Fr 3xB Fr 110B Geog 102 Ger 2B Hist 142 Math 12B Math 10xC Math 270 Phil 112 Phys 128 Pol Sc 10B Pol Sc 120x Psych 1xB Psych 2B	Bus Adm 51xB Bus Adm 155x Econ 182 Econ 260 (MW) EE 112 (MTWTh) Eng A—sect. B Eng 1xC Eng 72B Eng 142 Fr 4B Ger 4B Math 6C Math 21C Math 171x Pol Sc 172 Psych 116B (MWF to 8:30) Psych 242 (TTh to 9:10) Span 3xB Span 110B Stat 51xB lect. Stat 116 Zoo 2T lab. (MTWTh to 9) Zoo 144 lab. (MTWTh to 9)	EE 14C (MTh) EE 106C (MTh) EE 120 (TF) EE 134C (MTh) Hist 240 (MW 8-10) Hist 272 (TTh 8-10) Math 3xB Pol Sc 272 (MW) Stat 51xN lab. (MW 8-9:30) Stat 51xQ lab. (F 8-10:30) Stat 116 lab. (TTh 8-9:30)

EVENING CLASSES (Continued)

5:10	6:10	7:10	8:10
	Soc 28B Span 2C Span 4C Speech 21xC Stat 52B Stat 118 Zoo 2B lect. (MTWTh) Zoo 144 lect. (MW)		





## INDEX

- Academic Credit, 10
- Administration, offices of, 4-5
- Admission, 15-16, 25, 26-27, 27-28, 28, 29
- Associate in Arts, degree of, 25
- Bachelor of Arts, degree of, 25-26
- Bachelor of Science, degree of, 25, 26
- Biology, courses in, 34
- Botany, courses in, 34-35
- Business Administration, courses in, 35-37
- Calendar of the Summer Session, vi
- Chemistry, courses in, 37-39
- Civil Engineering, courses in, 39-41
- Columbian College, 25-27
- Combined curricula, Bachelor of Arts—Doctor of Medicine, 25
- Courses of instruction, 31-68
- Credit:
  - Indication of in course descriptions, 33
  - Maximum for Summer Session, 19
- Deans and Directors, 4-5
- Doctor of Education, degree of, 29
- Doctor of Philosophy, degree of, 27
- Economics, courses in, 40-41
- Education:
  - Courses in, 41-44
  - School of, 28-29
- Electrical Engineering, courses in, 41-45
- Engineering:
  - Courses in, 39-41, 44-45, 54-55
  - School of, 28
- English, courses in, 45-47
- Faculty of the Summer Sessions, 11-14
- Fees and financial regulations, 17-19
- Foreign Service Review Course, 29-31
- French, courses in, 62, 63
- Geography, course in, 48
- German, courses in, 48-49
- Government, School of, 29-31
- Graduate Council, 27
- History, courses in, 49-51
- Hospital services, 17-18
- Junior College, 25
- Law:
  - Courses in, 51-53
  - School of, 27-28
- Library facilities, 7
- Living accommodations and costs, 21
- Master of Arts, degree of, 25, 26
- Master of Science, degree of, 25, 26
- Mathematics, courses in, 53-54
- Mechanical Engineering, courses in, 54-55
- Medical services, 17-18
- Officers of Administration, 4-5
- Philosophy, courses in, 56
- Physics, courses in, 56-57
- Political Science, courses in, 57-59
- Psychology, courses in, 59-61
- Refund of tuition, 18-19
- Registration, 16
- Regulations, 19
- Religion, courses in, 61
- Romance Languages, courses in, 62-64
- Schedule of courses, hourly, 67-79
- Sociology, courses in, 64
- Spanish, courses in, 62-63, 63-64
- Special Students, Division of, 31
- Speech, courses in, 65-66
- Staff of Instruction, 11-14
- Statistics, courses in, 66-67
- Student life, 21
- Trustees, Board of, 3
- University Students, Division of, 31
- University history, organization, academic status, location, educational facilities, 6-8
- Veterans, Education, 21-21
- Withdrawal from the University, 18-19
- Zoology, courses in, 67-68



THE LAW SCHOOL

1948-49





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BY THE UNIVERSITY



# CONTENTS

	PAGE
CALENDAR OF THE LAW SCHOOL.....	vi
THE UNIVERSITY .....	i
The Board of Trustees.....	3
Officers of Administration .....	4
History and Organization.....	5
THE LAW SCHOOL.....	7
The Faculty .....	9
General Information .....	13
Admission .....	15
Registration .....	17
Fees and Financial Regulations.....	17
Scholarships, Prizes, Loan Funds .....	19
Regulations .....	20
Student Life .....	22
The Degrees .....	24
COURSES OF INSTRUCTION.....	27
DEGREES CONFERRED, 1947-48 .....	36
STUDENTS REGISTERED, 1947-48.....	41
SUMMARIES OF REGISTRATION, 1947-48 .....	64
INDEX .....	69

# CALENDAR

1948-49

Date	Day	Occasion
1948		
Fall Term:		
Sept. 29 and 30....	Wednesday and Thursday	Registration of students registered winter or summer term 1948
Oct. 1.....	Friday	Registration of new students
Oct. 4.....	Monday	Fall term begins
Nov. 11.....	Thursday	Fall Convocation. Holiday
Nov. 25-27.....	Thursday through Saturday	Thanksgiving recess
Dec. 22-Jan. 1....	Wednesday through Saturday	Christmas recess
1949		
Jan. 3 and 4.....	Monday and Tuesday	Preregistration of students registered in the fall term
Jan. 5.....	Wednesday	Classes resume
Jan. 20.....	Thursday	Inauguration Day. Holiday
Jan. 21-Feb. 1....	Friday through Tuesday	Fall term examination period
Feb. 4.....	Friday	Registration of new students
Winter Term:		
Feb. 7.....	Monday	Winter term begins
Feb. 22.....	Tuesday	Winter convocation. Holiday
April 15 and 16...	Friday and Saturday	Easter recess
May 2.....	Monday	Summer term preregistration for students registered in the winter term
May 18-28.....	Wednesday through Saturday	Winter term examination period
May 29.....	Sunday	Graduation Sermon
June 1.....	Wednesday	Commencement
Summer Term:		
June 4.....	Tuesday	Registration of new students for the next session
June 8.....	Wednesday	First session classes begin
July 4.....	Monday	Independence Day. Holiday
Aug. 2.....	Tuesday	First summer session ends
Aug. 3.....	Wednesday	Registration for the second session of the summer term
Sept. 5.....	Monday	Second session classes begin
Sept. 27.....	Tuesday	Labor Day. Holiday
Sept. 28-30.....	Wednesday through Friday	Second summer session ends
		Registration for the fall term of the academic year 1949-50



THE UNIVERSITY



## THE BOARD OF TRUSTEES

The Board of Trustees of the University is composed of the President and Vice-President of the University ex officio and the following persons by election:

Robert Vedder Fleming, LL.D., *Chairman*

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\* Nominated by the alumni

## OFFICERS OF ADMINISTRATION

### THE UNIVERSITY

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William Cabell Van Vleck, A.B., LL.B., S.J.D., LL.D., *Dean of the*  
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Ella Cooper Thomas, LL.B., *Assistant Librarian in Charge of the Law*  
*Library*



## THE UNIVERSITY

### HISTORY AND ORGANIZATION

The idea of a university in the Capital of the Nation was sponsored by George Washington, who during his public life urged the establishment of such an institution and who in his will left fifty shares of stock in the Potomac (Canal) Company for the endowment of a university to be established in the District of Columbia "to which the youth of fortune and talents from all parts thereof might be sent for the completion of their Education in all the branches of polite literature;—in arts and Sciences,—in acquiring knowledge in the principles of Politics & good Government".

The George Washington University operates under a charter granted by an act of Congress of February 9, 1821, to Columbian College in the District of Columbia. In 1873 the name was changed to "Columbian University" and in 1904 to "The George Washington University".

The University as it is now organized consists of the Junior College, comprising the work of the freshman and sophomore years; Columbian College, the senior college of liberal arts, which offers work leading to the Bachelor's and Master's degrees; the Graduate Council, which offers work leading to the degree of Doctor of Philosophy; the professional schools, which include Medicine, Law, Engineering, Pharmacy, Education, and Government; the Division of University Students; the Division of Special Students; and the Summer Sessions.

### ACADEMIC STATUS

The George Washington University is on the approved list of the Association of American Universities, the standard accrediting body for the United States. This fact not only assures to students the academic standards of this accrediting body, but also is important to those who desire to transfer credits from one institution to another.

The University is also accredited by its regional accrediting agency, the Middle States Association of Colleges and Secondary Schools, and is on the approved list of the American Association of University Women.

The Law School is a charter member of the Association of American Law Schools and is approved by the Council of Legal Education of the American Bar Association.

#### LOCATION

The George Washington University is in downtown Washington, four blocks west of the White House and east of the Potomac River with its extensive parkway. Within a few blocks are the buildings housing the offices of many of the departments of the Government, including the Department of State, the Department of the Treasury, the Department of Justice, the Department of the Navy, the Department of the Interior, the Department of Agriculture, the Department of Commerce, and the Department of Labor. The Corcoran Gallery of Art, the Pan American Union Building, and the National Academy of Sciences are also near by; and the Capitol, the Library of Congress, the National Archives, and National Gallery of Art are readily accessible.

THE LAW SCHOOL





## THE LAW SCHOOL

### THE FACULTY

CLOYD HECK MARVIN, Ph.D., LL.D., *President of the University*

WILLIAM CABELL VAN VLECK, A.B., LL.B., S.J.D., LL.D., *Dean of the Law School*

### EMERITUS FACULTY

WALTER COLLINS CLEPHANE

*Professor Emeritus of Law*

LL.B. 1880, LL.M. 1890, LL.D. 1912, The George Washington University. Member 1897, Committee on Admissions and Grievances, District Court of the United States for the District of Columbia; Member 1909, Conference of Commissioners on Uniform State Laws. In Practice of Law 1887, now Member of Clephane, Latimer and Hall, Washington (D. C.); Instructor in Moot Court 1899-1908, Professor of Law 1909-16, Professor Emeritus of Law 1936, The George Washington University.

GILBERT LEWIS HALL

*Professor Emeritus of Law*

A.B. 1892, Swarthmore College; LL.B. 1918, The George Washington University. Teacher and Division Superintendent of Schools 1901-10, P. I., with U. S. Indian Service 1912-18; in Practice of Law with Clephane and Latimer, Washington (D. C.) 1918-29, Member 1929, Clephane, Latimer and Hall, Washington (D. C.); Lecturer in Law 1929-35, Adjunct Professor of Law 1935-42, Professor Emeritus of Law 1942, The George Washington University.

JOHN WILMER LATIMER

*Professor Emeritus of Law*

LL.B. 1897, The George Washington University. In Practice of Law 1900-13, 1917-18; Judge 1913-17, Juvenile Court of the District of Columbia; Member 1918-20, Clephane, Latimer and Hall, Washington (D. C.); Clerk of the Moot Court 1904-7, Instructor in Law 1908-9, Assistant Professor of Law 1910-13, Professor of Law 1913-42, Professor Emeritus of Law 1942, The George Washington University.

WALTER LEWIS MOLL

*Professor Emeritus of Law*

A.B. 1898, Concordia College (Ind.); Graduate 1899, Concordia Theological Seminary (St. Louis); LL.B. 1901, Indiana University; S.J.D. 1924, Harvard University. University Scholar 1902-3, University Fellow 1903-4, Johns Hopkins University; Professor of English 1904-9, Professor of Greek 1909-20, Concordia College (Ind.); in Practice of Law with Oels & Thomas, Fort Wayne (Ind.) 1920-22, Instructor in Commercial Law 1922-24, Instructor in Law 1924-25, Indiana University; Professor of Law 1924-41; Professor Emeritus of Law 1941, The George Washington University.

HECTOR GALLOWAY SPAULDING

*Professor Emeritus of Law in Residence*

B.S. 1900, University of Minnesota; LL.B. 1904, S.J.D. 1924, Harvard University. Acting Assistant Professor of Law 1914-15, Stanford University; in Practice of Law with Ritch, Woodford, Boyce and Butler, New York City; with Casaday, Butler, Lamb and Foster, Chicago; Assistant Professor of Law 1900-22, Professor of Law 1922-47, Professor Emeritus of Law in Residence 1947, The George Washington University.

WENDELL PHILLIPS STAFFORD

*Professor Emeritus of Law*

LL.B. 1884, Boston University; A.M. 1901, Dartmouth College; LL.D. 1905, LL.D. 1922, University of Vermont; LL.D. 1905, Georgetown University; LL.D. 1905, Middlebury College; LL.D. 1916, The George Washington University. Judge 1900-1904, Supreme Court of Vermont; Associate Justice 1904-11, Supreme Court of the District of Columbia; Lecturer on Agency 1914-16, Georgetown University; Professor of Law 1908-29, Professor Emeritus of Law 1929, The George Washington University.

## LEVI RUSSELL ALDEN

A.B. 1901, A.M. 1904, LL.B. 1906, The George Washington University. A.M. 1907, Harvard University. In Practice of Law 1908-. Washington (D. C.). Assistant in History 1911-4. Instructor in History 1904-6, Assistant Professor of History 1911-20, Assistant Professor of Commercial Law 1913-22, Professor of Commercial Law 1922-28, Lecturer on Admiralty 1925-18, Adjunct Professor of Law 1938-. The George Washington University.

*Professor of Law*

A.B. 1920, Johns Hopkins University; LL.B. 1924, S.I.D. 1926, Harvard University. In Practice of Law with Beaman, Nick & Rowe, Baltimore (MD) 1923-25. Assistant Professor of Law 1926-28, Emory University; Assistant Professor of Law 1929-33, Associate Professor of Law 1933-44, Professor of Law 1943-. The George Washington University. Subjects: Judicial Process, Property, Wills

Professor of Law

AB 1911, LL.B. 1915, S.J.D. 1932, Harvard University. In Practice of Law with Rounds, Sowerman and Dwight (later Hughes, Sowerman and Dwight), New York City 1915-16; Member Staff 1918-19, Cornell University Law School; Ezra Ripley Taylor Teaching End w. 1921-12, Harvard University Law School; Member Faculty, Second Semester 1933-36, University of Wisconsin Law School; Assistant Professor of Law 1938-41, A. Craig Dean of the Law School 1939-41, Professor of Law 1941-48, The George Washington University.

Subjects: Constitutional Law, Jurisprudence, Public Utilities, Taxation

*Professorial Lecturer in Law*

LL.B. 1928, Union University (N. Y.); M.B.A. 1931, Harvard University; J.S.D. 1935, Cornell University. Clerk to Committee on Labor and Industry 1925-28, New York State Senate; Dean and Professor of Business Administration 1931-32, Green Mountain College, Colchester, in Practice of Law with McDowell and McDowell 1933-38, Elmira (N. Y.); General Counsel 1941-45, Quartermaster Corps, U. S. Army; Chairman 1945-46, Civilian Control Personnel Committee, Department of the Army, Assistant Professor of Law 1946-47, Visiting Professor of Law 1948-49, Presidential Lecturer in Law, 1950-51, George Washington University.

Subject: Business Associations, Domestic Relations

Associate Professor of Law

AB 1922, Willamette University, P.M. 1931 University of Wisconsin; JD 1934, University of Michigan. Special Assistant to the Attorney General in the United States, 1934-40. The Assistant to the General Counsel of the Federal Communications Commission, 1940-41. Special Counsel to the Bureau of the Power Administration, Department of the Interior, 1941-43. Major, Military Government Division, War Department General Staff, U. S. Army 1943-45. Member 1946-47, M.F.A. and Secret, Washington, D. C. Adjunct Professor of Law, 1947-48, The George Washington University.

Subjects: Federal Jurisdiction, Criminal Law, Agencies, Most Current

Adjunct Professor of Law

A.B. 1903, University of the South; LL.B. 1906, Georgetown University. Member M. Keaney, Flannery and Craighill, Lecturer 1912-24, Washington College of Law; Adjunct Professor of Law 1930-. The George Washington University  
Subject: Moot Court

*Professor of Law; Editor-in-Chief of the Law Review*

A.B. 1921, LL.B. 1923, Dalhousie University; LL.M. 1924, S.J.D. 1929, Harvard University. Lecturer in Roman Law and Jurisprudence, 1924-26, Assistant Professor of Roman Law and Jurisprudence 1928-29, University of Toronto; Graduate Research Fellow 1928-29, Research Fellow 1929-30, Harvard University; Assistant Professor of Law 1930-36, Associate Professor of Law 1936-48, Professor of Law 1945-; The George Washington University; Editor-in-Chief 1946-. *The George Washington Law Review*.  
Subjects: Administrative Law, Legislation, Public Utilities, Business Associations

*Associate Professor of Law*

A.B. 1929, LL.B. 1931, The George Washington University Practice of law, 1932-32.  
Lecturer in Political Science 1937-38, The George Washington University. Captain,  
Judge Advocate General's Department, U. S. Army. Associate Professor of Law 1947-  
The George Washington University  
Subjects: Judicial Process, Property I, Trusts

## Assistant Professor of Law

A.B. 1939, LL.M. 1940, University of Wisconsin; LL.B. 1942, The George Washington University. Member 1946-47, Schmitt & Eckhardt, Meriden, Conn.; Assistant Professor of Law 1947-. The George Washington University.

Subjects: Domestic Relations, Property, Wills

*Lecturer in Law; Clerk of the Moot Court*

A.B. 1929, LL.B. 1931, The George Washington University. In Practice of Law 1931-39, with Frank F. Nesbit, Washington (D. C.); Member 1939-47, American Bar Association, Washington (D. C.); Member 1947- , Cromelin, Tamm & Kneass, Washington (D. C.); Clerk of the Moot Court 1926- , Associate in Law 1927-30, 1931-32, 1933-34, 1935-36, The George Washington University.

Subject: Moot Court

*Lecturer in Law*

A.B. 1929, Hillsdale College; LL.B. 1933, LL.M. 1936, The George Washington University. Special Claims Examiner 1936-38, U. S. Government. Assistant Attorney General 1938-42, Principal Attorney 1942-45, Assistant U. S. Attorney General 1945-46, Lecturer in Law 1942-45, The George Washington University.

*Professor of Law*

A.B. 1922, LL.B. 1924, The George Washington University, J.D. 1926, Yale University.  
 In Practice of Law with William Pepper Constable, Baltimore (Md.) 1924-26; Assistant  
 Professor of Law 1926-29, Associate Professor of Law 1929-40, Professor of Law 1940-41.  
 The George Washington University.  
 Subjects: Property, Federal Process I and II, Property I.

*Adjunct Professor of Law*

AB. 1927, LL.B. 1928, LL.M. 1929, The George Washington University, U.S.A.  
 Member of the American Bar Association, 1928-1930  
 Member of the American Institute of International Law, 1928-1930  
 President of the American Institute of International Law, 1928-1930  
 Secretary of the American Institute of International Law, 1928-1930

[illegible]



**JOHN ALBERT MCINTIRE***Professor of Law*

A.B. 1928, *Whitcomb College*, LL.B. 1931, *University of Chicago*, Research Fellow 1935-36, *Harvard University Law School*, Lecturer 1937-41, *Minnesota Law Journal*, Executive Director 1937-41, National Institute of Municipal Law Officers, Faculty Editor-in-Chief 1932-42, *The George Washington Law Review*, Member of Appellate Board, Office of Council on Education, 1940-41, Lecturer in Law 1941-43, Assistant Professor of Law 1943-46, *George Washington University*.

Subjects: Municipal and Government Corporations

**LEROY SORENSON MERRIFIELD***Assistant Professor of Law*

A.B. 1938, LL.B. 1941, *University of Minnesota*, M.P.A. 1942, *Harvard University*, Administration Fellow, Graduate School of Public Administration, *Harvard University*, 1942-43, Attorney, Office of Public Administration, 1942-43, Attorney, Assistant Director, U. S. Department of Justice 1946-47, Assistant Professor of Law 1947-48, *The George Washington University*.

Subjects: Contracts, Judicial Process, Torts

**JAMES WARD MORRIS***Adjunct Professor of Law*

A.B. 1942, *University of North Carolina*, In Practice of Law 1944-45, Special Assistant to the Attorney General 1945-46, Assistant Attorney General at the United States Customs, Assistant Justice 1947-48, United States District Court for the District of Columbia, Adjunct Professor of Law 1949-50, *The George Washington University*.

Subject: Moot Court

**JAMES OLIVER MURDOCK***Professor of Law*

Ph.D. 1916, *University of Chicago*; LL.B. 1924, *Harvard University*, Certificate 1925, *Akron School of International Law at The Hague*, In Practice of Law with *Coleman*, *Wheeler and Taft* 1924-28, New York City, Assistant Solicitor and Assistant Legal Adviser 1928-32, Southern District of N. Y., Assistant Solicitor and Assistant Legal Adviser 1932-35, U. S. Dept. State, Council for United States 1935-41, Lecturer in Law 1941-42, U. S. Council on Education, Secretary of American Education 1942-43, International Committee of American States on Commerce and Arbitration 1943-44, International Committee of American States on Commerce and Arbitration 1944-45, Council for United States Sweden Arbitration, in Private Practice of Law 1947-1948, Chairman, 1948-49, A.B.A. Section of International and Comparative Law 1947-1948, Chairman, 1948-49, Inter-American Academy of Comparative and International Law, Havana, and member of *Congress*, Lecturer in Law 1949-50, Adjunct Professor of Law 1949-50, *Professor of Law* 1949-50, *The George Washington University*.

Subjects: Comparative Law, International Law, Criminal Law

**SAUL CHESTERFIELD OPPENHEIM***Professor of Law*

A.B. 1918, A.M. 1920, *Columbia University*, J.D. 1926, S.I.D. 1927, *University of Michigan*, Instructor in Economics 1921-26, Teaching and Research Assistant, *Faculty of Law School* 1926-27, *University of Michigan*, Assistant Professor of Law 1927-30, Assistant Professor of Law 1930-31, *Association of American Law Schools* 1931-32, *The George Washington University*, Editor-in-Chief, 1942-46, *The George Washington Law Review*.

Subjects: Negotiable Instruments, Sales, Trade Regulation (United Trade Practices and Federal Anti-Trust Laws)

**WILLIAM CABELL VAN VLECK***Professor of Law; Dean of the Law School*

A.B. 1908, LL.B. 1911, LL.D. 1948, *The George Washington University*, S.I.D. 1921, *Harvard University*, Member Summer Faculty 1924 and 1925 at *University of Michigan*, 1927 at *Stanford University*, 1934 at *University of Chicago*, 1940 at the *Advances in the Reporter on Conflict of Laws* 1926-31, *American Law Institute*, Reporter *Index* 1926-31, *Harvard University Law School*, Instructor in Law 1912-16, Assistant Professor of Law of the Law School 1919-20, Secretary of the Law School 1921-22, Acting Dean of the Law School 1923-24, Dean of the Law School 1924-25, *The George Washington University*.

Subjects: Conflict of Laws, Torts



THE DEAN'S COUNCIL •

Carville Dickinson Benson  
Charles Sager Collier  
Robert McKinney Cooper  
James Forrester Davison  
Harryman Dorsey

August Gottlieb Eckhardt  
William Thomas Fryer  
Leroy Sorenson Merrifield  
James Oliver Murdock  
Saul Chesterfield Oppenheim

GENERAL INFORMATION

The George Washington University Law School, established in 1826, discontinued and reorganized in 1865, is the oldest law school in the District of Columbia. Its course of instruction is planned to fit its graduates for the practice of law in any of the states of the United States. It is also designed to prepare students for public service as lawyers in the Federal Government or the governments of the states. In 1900 the School took part in the organization of the Association of American Law Schools and it has been a member of the Association since that time. The School is approved by the Council of Legal Education of the American Bar Association.

ORGANIZATION OF THE ACADEMIC YEAR

The work of the year is organized into three terms known as the fall term, winter term, and summer term. The work undertaken in any one term may be completed by the end of that term.

THE LIBRARY

The Law Library of 26,500 volumes contains the official reports of the decisions of the courts of last resort of all the states prior to the National Reporter System and of fourteen states complete to date; the National Reporter System, complete; the reports of the United States Supreme Court and lower federal courts, and the reports of federal administrative agencies; Shepard's Citations for the units of the Reporter System; the English Reprint and English Law Reports; the United States Statutes; the United States Code, Annotated, and the Federal Code, Annotated; reasonably complete sets of statutes of all of the states; the English statutes; the principal English and American digests and encyclopedias; collections of special reports and annotated cases; and the leading textbooks, casebooks, and legal periodicals.

The Library is open from 9:00 A.M. to 10:00 P.M. each class day (Saturday, 9:00 A.M. to 5:00 P.M.), and from 2:00 to 6:00 P.M. on Sunday.

\* The President of the University and the Dean of the Law School are ex officio members of the Council.

### THE LAW REVIEW

*The George Washington Law Review*, published by the University, is edited by the Faculty and students of the Law School. It is devoted exclusively to state and federal law. The location of the University in the National Capital, where federal public law may be observed in operation, affords an unexcelled opportunity for specialization in this field.

The *Review* is edited by a faculty editor-in-chief, a faculty board of associate editors, a board of departmental advisory editors, and a board of student editors. The student editors are chosen each year on the basis of scholarship.

### RESEARCH IN PUBLIC LAW

Washington, the capital of the Nation, furnishes unsurpassed advantages for research in the fields of public law. In it are the offices of the major executive departments, the Congress, the Supreme Court of the United States, and lower federal courts. In the executive departments and among the many independent establishments of the Federal Government there have been estimated to be between seventy-five and one hundred agencies, the activities of which involve the various branches of public law, particularly administrative law. The student of public law can study at first hand the work of these administrative agencies. He also has available as sources for investigation their records of administrative adjudications.

Research in public law will be conducted under the supervision of members of the faculty. The purpose of this research is to furnish means for training specialists in public law, either as government lawyers or as lawyers representing individuals or corporations in cases in which the Government is a party, and to assist in the analysis, clarification, formulation, and improvement of public law, substantive and procedural.

Candidates for the graduate degrees in the Law School and seniors who are eligible for the degree of Juris Doctor may pursue this work. Other students may be admitted with the special permission of the professor in charge.

### COURSE OF STUDY FOR FOREIGN LAWYERS

This course of study is designed to meet the needs of lawyers who come from countries the legal systems of which are based on the Roman or Civil Law. It attempts to provide for such students a course sufficient to enable them to acquire an understanding of the fundamentals of the common law so that they may work intelligently with common law materials and common law practitioners. In this program the

students are not assigned to special classes but work in association with other students in the regular law subjects. No fixed program of required courses is attempted, but each student is permitted to work out a program best adapted to his individual needs.

### THE STUDENT BAR ASSOCIATION

Every student in the Law School is required to be a member of the Student Bar Association. This is organized to enable the student to become better acquainted with problems of the profession, to develop better professional ideals, and to bring about closer contact with members of the profession engaged in active practice of the law.

The work of the Student Bar Association is carried on by various committees and by group and general meetings of a professional and social nature. From time to time lectures are given by outstanding authorities on legal and professional problems.

Each member of the Student Bar Association receives a subscription to *The George Washington Law Review*.

### PRACTICE AND PRACTICE COURT

The curriculum is planned to include such training in the fundamentals of practice as is feasible in a law school. Classroom instruction is conducted in the theories of pleading and procedure, trial and appellate practice, and evidence. This instruction includes grounding in the principles of the new Federal Rules of Civil Procedure. In addition each senior student is required to participate in the work of the Practice or Moot Court. This includes trying a specified number of cases, both as a senior counsel and junior counsel. For students who are planning to practice patent law, a special section of the court is devoted exclusively to the trial of patent cases.

### ORDER OF THE COIF

The Order of the Coif, a national honor society with chapters in thirty-seven law schools, aims "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship". The George Washington University Chapter was established in 1926. Members are elected each year from the highest-ranking 10 per cent of the graduating class of the Law School.

### ADMISSION

#### APPLICATION FOR ADMISSION

An applicant for admission must obtain from the Office of the Director of Admissions an application blank which he must fill out completely and return.



A recent photograph, with signature, of the applicant must be attached to the blank.

To insure prompt action, applications should be filed not later than July 1 for the fall term, January 1 for the winter term, and May 1 for the summer term.

The applicant must request the registrar of each higher institution previously attended to mail directly to the Office of the Director of Admissions the transcript of his record, *even though credits were not earned*, together with an honorable dismissal from the institution last attended. The student must be in good standing as to scholarship and conduct, and must be eligible to return to the previously attended institutions in the term for which he or she seeks admission to The George Washington University.

#### REQUIREMENTS FOR ADMISSION

##### For the Degrees in the Professional Course

*Bachelor of Laws\* and Juris Doctor†.*—A Bachelor's degree awarded upon completion of a four-year course in an approved college or university.

#### ADVANCED STANDING

Advanced standing toward the degree of Bachelor of Laws may be granted for work successfully completed in other law schools which are members of the Association of American Law Schools.

Applicants for admission with advanced standing must file certified transcripts of record showing high school, college, and law credits. The right is reserved to refuse such credit, in whole or in part, or to allow it conditionally or after examination, and credit given may be withdrawn for subsequent poor work. No student admitted with advanced standing will be recommended for the degree of Bachelor of Laws until he has completed in this School at least one full year of residence and passed successfully twenty-eight credit hours with the required average for the degree. No student will be admitted who has been in attendance at another law school and who is ineligible, because of poor scholarship, to return to that school.

Students planning to attend summer school sessions at other law schools and desiring to use credits obtained at such schools in their course

\* No less than one-half the work necessary for graduation from an approved college or university will be accepted as satisfactory for admission to the law school. For regular students of the University in attendance attending in the 1947 winter term registration, (1) applicants for the degree of Bachelor of Laws at Master of Laws will have completed not less than 24 months of college work previous to the summer session of the United States during World War II. All previous work must be of a quality and credit equal to that of the University.

† A Bachelor's degree which includes credits for work done in this or any other Law School will not satisfy the admission requirement for this degree.



at this Law School must first have the courses they wish to take approved by the Dean. In no event will credits be recognized in excess of those which might be obtained in a similar period in this School.

Advanced standing toward the degree of Juris Doctor for work in other law schools will not be granted.

#### For the Degrees in the Graduate Course

*Master of Laws.\**—A Bachelor's degree awarded upon completion of a four-year course in an approved college or university and the degree of Bachelor of Laws, or the equivalent, from an approved law school.

*Master of Comparative Law.*—(1) The successful completion of and graduation from a course in arts, philosophy, letters, or sciences, equivalent to graduation from a gymnasium, lycee, or liceo (junior college); and (2) graduation in law from a recognized foreign university where the legal training was in Civil Law.

*Doctor of Juridical Science.*—(1) The degree of Juris Doctor from this Law School; or (2) the degree of Bachelor of Arts from an approved college, the degree of Bachelor of Laws or the equivalent, earned with high rank, from an approved law school, outstanding capacity for scholarly work in the field of law, and acceptance as a candidate by the Committee on Graduate Students.

#### Unclassified Students

A person eligible for admission to regular standing but not a candidate for a degree may, at the discretion of the Dean, be admitted as an unclassified student.

A person who is in good standing as a candidate for a degree in another approved law school may, at the discretion of the Dean, be admitted as an unclassified student. Work taken by an unclassified student will not be accepted for credit toward a degree at this Law School.

#### REGISTRATION

Before attending classes each student must present himself in person for registration. No student will be registered in the Law School until proper credentials have been filed and approved (see "Admission", above).

Registration is for the term or session only.

A late-registration fee of \$5 will be charged each student who is permitted to register after the regular registration days.

Registration may be changed only with the permission of the Dean.

\* No less than one-half the work necessary for graduation from an approved college or university will be accepted as satisfying the admission requirements for (1) regular students of the University in continuous attendance since the 1917 winter term registration, (2) applicants for the degree of Bachelor of Laws or Master of Laws who have completed not less than 24 months of continuous service in the armed forces of the United States during World War II.

## FEES AND FINANCIAL REGULATIONS

Application fee .....	\$3.00
Tuition fee, for each credit hour .....	12.00
For the degree of Doctor of Juridical Science:	
For work leading to and including the final examinations .....	360.00
Student Bar Association fee, for each term, or any part thereof except the summer term .....	2.00
Graduation fee .....	2.00
Fee for printing and filing summary of doctoral thesis .....	5.00
Fee for special examinations, for each subject .....	5.00
Late-registration fee, charged each student who fails to register within the designated period .....	5.00
Service fee for late payment of tuition, see "Payment of Fees" .....	1.00
Reinstatement fee, charged each student who is reinstated after being suspended for delinquency in fees .....	5.00

Registration in the University entitles each student to the following University privileges: (1) the issuance of three certified transcripts of record, if and when desired; (2) the services of the Placement Office; (3) the use of University library facilities, except as otherwise designated; (4) gymnasium privileges; (5) admission to all athletic contests, unless otherwise specified; (6) subscription to the *University Hatchet*, the student newspaper; (7) admission to University debates; (8) medical attention and hospital services as described under "Health Administration", page 23. These privileges, however, with the exception of the issuance of transcripts, terminate, and a student is no longer in residence, when he withdraws or is dropped from the University.

## PAYMENT OF FEES

All fees are payable at the Office of the Cashier, 725 Twenty-first Street NW. No student is permitted to complete registration or to attend classes until all fees are paid. Fees for each term are due and payable in advance at the time of registration.

Subject to the approval of the Comptroller, a student may sign a contract for term charges, except for fees payable in advance, permitting payments as follows:

*Fall Term.*—One third at the time of registration; one third on November 3; one third on December 3.

*Winter Term.*—One third at the time of registration; one third on March 3; one third on April 4.

A student who fails to meet payments when due but who pays his fees on or before the tenth day of the month in which payment is due is charged a service fee of \$1. A student who fails to meet payments by the tenth day of the month in which payment is due will be suspended and may not attend classes until he has been officially reinstated and has paid all accrued fees and a reinstatement fee of \$5. A suspended student

may not be reinstated for the term after two weeks from the date of suspension. Applications for reinstatement are to be made to the Dean.

#### WITHDRAWALS AND REFUNDS

Application for withdrawal from the University or for change in class schedule must be made in person or in writing to the Dean. Notification to an instructor is not an acceptable notice.

In authorized withdrawals and changes in schedules, financial adjustments will be made as follows:

**Fall Term.**—Withdrawal dated on or before October 30, cancellation of the second and third payments; withdrawal dated on or before November 30, cancellation of the third payment. No refund or reduction will be allowed on a withdrawal dated subsequent to November 30.

**Winter Term.**—Withdrawal dated on or before February 28, cancellation of the second and third payments; withdrawal dated on or before March 31, cancellation of the third payment. No refund or reduction will be allowed on a withdrawal dated subsequent to March 31.

In no case will any part of an initial payment of fees be refunded, and in no case will tuition be reduced or refunded because of nonattendance upon classes.

Payment applies only to the term for which a registration charge is incurred and in no case will this payment be credited to another term.

Authorization to withdraw and certification for work done will not be given a student who has not a clear financial record.

#### SCHOLARSHIPS, PRIZES, LOAN FUNDS

**Charles Worthington Dorsey Memorial Scholarship.**—This scholarship, established as a memorial to Charles Worthington Dorsey, Bachelor of Laws '81, Master of Laws '82, is awarded upon the recommendation of the Faculty of the Law School to a needy and promising graduate of Columbian College or other division of the University, with a Bachelor of Arts or other equivalent degree, who has maintained an average of B as an undergraduate student and who desires to pursue the study of law as a full-time student. The scholarship covers tuition for the course leading to the first degree from the Law School, Bachelor of Laws or Juris Doctor, provided that the holder maintains an average of B. The right is reserved to suspend the benefits of the scholarship for cause at any time. The scholarship is awarded ordinarily once every three years.

All other scholarships are administered by the University Committee on Student Loans and Scholarships. Application should be made to the Registrar of the University.

The following prizes are awarded annually in the Law School:

**Ellsworth Prize.**—The Ellsworth Prize of \$25, established by the late



Mr. Fritz von Briesen, is awarded to the student doing the best work in the subject of Patent Law Practice.

*John Bell Larner Prize.*—This prize, established by the bequest of John Bell Larner, consists of a medal which is awarded annually to that member of the graduating class in the Law School who attains the highest average grade in the entire course for the degree of Bachelor of Laws.

*John Ordronaux Prizes.*—These prizes were established in 1909 by the bequest of John Ordronaux. The amount of \$35 is awarded annually to the student in the Law School who has attained the highest average grade in the first-year, full-time, regular course; and \$35 to the student who has attained the highest average grade in the second-year, full-time, regular course.

Through the generosity of friends of the University a number of loan funds are available to students in the Law School. Among them is the Henry Strong-William A. Maury Loan Fund established by the Henry Strong Educational Foundation in memory of Henry Strong and William A. Maury. Application for loans should be made to the Comptroller of the University.

#### REGULATIONS

*Students in the Law School are subject to, and are expected to familiarize themselves with, the general University regulations stated in the University Catalogue.*

#### AMOUNT OF WORK

Students without substantial outside employment may take a full-time program of studies in which the majority of credit hours must be in morning sections. Students with substantial outside employment must take a limited program of studies not exceeding ten hours a week.

#### ATTENDANCE

Regular attendance on classes is required and is necessary for successful work. A student who is deficient in class attendance in any subject may, by action of the Dean's Council, be barred from taking the examination in that subject.

#### RESIDENCE REQUIREMENTS

A year's attendance in the evening classes is counted as residence for three fourths of a year. A student admitted with advanced standing must complete at least one year of residence in this School and pass twenty-eight credit hours with the required average for the degree.

#### GRADES

Grades are indicated by the letters *A*, excellent, 85-100; *B*, good, 75-84; *C*, satisfactory, 65-74; *D*, poor, 55-64—below standard for graduation; and *F*, failed—below 55.



The grades *A*, *B*, *C*, and *D*, mean that the work has been successfully completed and credit given for the subjects.

*F*, failed, means that no credit will be given. To obtain credit the student must repeat the subject; but a student who has obtained an average of *C* in the work of the academic year and received a grade of *F* in only one subject may take the next regular examination in that subject, and if on such reexamination he obtains a passing grade he will be given credit in the subject. Both grades are recorded.

#### EXAMINATIONS

Written examinations are held at the end of each term in all subjects. Every student is required to take the regular examinations in the subjects pursued, unless excused. No excuse for absence will be granted except by the Dean and then only for illness or other emergency. Application for excuse must be made in writing not later than one month after the date of the examination. A student thus excused may take the next regularly scheduled examination in the subject for which the excuse has been granted.

No special examinations will be given; except that, upon written application to the Dean's Council, showing sufficient cause, a candidate for a degree at a convocation before the next regular examination, if he would be entitled to take a postponed examination, may, at the discretion of the Dean's Council, be given a special examination.

#### EXCLUSION AND PROBATION FOR POOR SCHOLARSHIP

A student who during an academic year fails in courses aggregating eight or more credit hours will be excluded. Such a student is not eligible to be registered in the Law School or to attend classes. He may, however, be admitted to the next regular examinations in those subjects in which he has made a grade below passing, and if he receives a grade of passing in these subjects with an average sufficient to make his general average not less than *C*, he will be reinstated.

A student not subject to exclusion under the foregoing rule who at the end of an academic year has failed to maintain a general average of at least *C*, will be on probation during the next academic year. A student on probation may at the discretion of the Dean be required to reduce his program of study. A student on probation will be excluded at the end of the probationary year unless he has made grades sufficient to give him a general average of at least *C*.

The general average of a student includes all the grades in all the subjects taken while he is in the Law School working for a particular degree. When a subject is repeated or a reexamination is taken, both the first grade and the subsequent grade or grades are counted in the general average.

In special cases in which it is clear that the student's failure does not indicate lack of ability to pursue the study of law, the student who has become subject to exclusion may be readmitted by vote of the Dean's Council of the Law School.

No student is put on probation or excluded because of the work of one term only, or as the result of a program of less than four hours a week during the academic year.

#### CLASSIFICATION OF STUDENTS

Students are divided into classes on the completion of credit hours as follows: first year, one through twenty-eight; second year, twenty-nine through fifty-six; third year, fifty-seven or more.

#### RIGHT TO DROP STUDENTS

The right is reserved by the University to drop any student from the University, or from any class or classes, whenever, in the interest of the student or the University, the University Administration deems it advisable to do so.

#### STUDENT LIFE

##### LIVING ACCOMMODATIONS

*Women Students.*—Women students under twenty-one years of age who are enrolled for twelve or more credit hours of academic work in the University must have their residences approved by the Director of Activities for Women before their registrations can be completed. In the women's residence halls, single rooms with breakfast and dinner are \$50 and \$65 a month; double rooms, with the same service, are \$33 and \$38 a month a person. Applications for rooms should be made well in advance. Forms for application, together with detailed information, may be obtained from the Director of Activities for Women.

*Men Students.*—A limited number of single and double rooms are provided for men students, in temporary dormitories. Residence is restricted to veterans of World War II who are enrolled for a minimum of twelve credit hours of academic work in the University. Vacancies will be filled from the list of applicants, in accordance with the date of application. Single rooms are \$17 and \$18 a month; double rooms are \$12 and \$13 a month a person. Forms for application for room reservation may be obtained from the Director of Activities for Men.

#### PLACEMENT OFFICE

The Placement Office, in Columbian House, is maintained to assist graduates in finding positions for which their college work has prepared them.

### Student Employment

In addition, an employment service is operated to assist the self-supporting student in finding full or part-time employment.

The prospective student who expects to earn any part of his expenses and who does not have a definite appointment to a position before coming to Washington should have the means of support for at least one term.

Many out-of-town students secure positions in the departments of the Government in Washington by taking the United States Civil Service examinations in their home states.

### HEALTH ADMINISTRATION

The University maintains health services hereinafter described. Through reports from the students and University officials, the University attempts to keep informed as to all cases of illness among its students. This service is primarily diagnostic in its intent. It also provides first aid in the event of an emergency.

Medical privileges include: (1) the physical examination of every student entering from secondary school; (2) three visits by the University physician or surgeon, office or residence (District of Columbia) in any one illness, exclusive of a specialist, surgical operation, laboratory, or X-ray examination; (3) hospitalization, including board, medicine, and nursing in the University Hospital for not more than two weeks during a school year--the necessity to be determined by the Director of Health Administration. The duration of hospitalization period (maximum, two weeks) is also to be determined by the Director of Health Administration.

This medical benefit does not apply to illness or disability incurred previous to the University term or prior to payment of the University registration fee.

The student is allowed, if he so desires, to engage physicians and nurses of his own choice, but when he does so he will be responsible for the fees charged.

Rules: (1) The Director of Health Administration is empowered to limit or deny the medical benefits where, in his discretion, a student has, by his misconduct or breach of the rules of the University, made himself ineligible; (2) the Director of Health Administration has authority to determine the necessity and length of hospitalization; (3) a student who has severed his connection with the University is ineligible for medical benefits; (4) a student intending to train for an athletic team is required to pass a thorough examination at the beginning of each term; (5) the above regulations apply also during the summer term of the University.

The University is not responsible for injuries received in inter-collegiate or intra-mural games, or in any of the activities of the departments of physical education.



## THE DEGREES IN THE PROFESSIONAL COURSE

These degrees are Bachelor of Laws (LL.B.) and Juris Doctor (J.D.).

### REQUIREMENTS FOR THE DEGREE OF BACHELOR OF LAWS

To be recommended for this degree the student must have completed: a residence period of not less than three academic years on a full-time basis (four years on a part-time basis) in an approved law school, the last year to be in this School; and eighty credit hours with a general average of at least *C*, in courses described on pages 29-35, including the course in Moot Court.

*Combined Degrees of Bachelor of Arts and Bachelor of Laws.\**—A candidate for the combined degrees of Bachelor of Arts and Bachelor of Laws must: (1) complete three years of satisfactory college work; (2) fulfill the residence requirement of at least thirty credit hours of Columbian College, the School of Government, or the School of Education; (3) obtain the approval of the Dean of the college concerned at the time of entering the Law School; (4) complete, without a failure in any subject and with an average grade of not less than middle *C*, the work of the first year in the Law School. The degree of Bachelor of Arts will be conferred at the end of the first year in the Law School, provided the above conditions have been satisfied. The degree of Bachelor of Laws will be conferred upon the satisfactory completion of the law course. Law school work taken at another institution will not satisfy the law requirement for the combined degrees.

*Combined Degrees of Bachelor of Science in Engineering and Bachelor of Laws.\**—For those students who desire to enter the branches of the legal profession in which a background in engineering is necessary a six-year curriculum is offered, leading to the combined degrees of Bachelor of Science in Engineering and Bachelor of Laws. A candidate for the combined degrees must conform to the residence and scholarship requirements of the School of Engineering throughout the period of preparation for the degree in engineering. His scholarship level for the junior and senior years must be acceptable to both the School of Engineering and the Law School. During the junior and senior years he must complete: (1) the required courses in engineering, (2) the 28 credit hours of courses required in the first year of the Law School, and (3) such electives as he needs to satisfy the 144 credit-hour requirement for the degree in engineering. The first year work in the Law School must be com-

\* Registration for work toward the combined degrees is limited to (1) regular students of the University in continuous attendance since the 1947 winter term registration, (2) applicants for the degree of Bachelor of Laws who have completed not less than 20 months of continuous service in the armed forces of the United States during World War II.



pleted without a failure in any subject and with an average grade of not less than middle *C*. Upon the satisfactory completion of the senior year, the degree of Bachelor of Science in Engineering will be conferred. The student will then continue his studies in the Law School; upon the satisfactory completion of which the degree of Bachelor of Laws will be conferred.

#### REQUIREMENTS FOR THE DEGREE OF JURIS DOCTOR

This degree is conferred as a recognition of the completion at the George Washington University Law School, with high rank, of the full professional course of not less than three full years (four years on a part-time basis) including experience in research and legal authorship.

To be recommended for this degree the student must have completed: (1) a residence period of not less than three academic years on a full-time basis (four years on a part-time basis) in the Law School; (2) eighty credit hours with a general average of at least *B*, in courses described on pages 29-35, including the course in Moot Court and one of the following courses: Comparative Law, Jurisprudence, or one of the graduate seminars; and (3) one year of acceptable service on the board of student editors of *The George Washington Law Review*, election to which is subject to regulations laid down by the faculty. Students taking the combined Arts and Law or Engineering and Law course are not eligible for this degree.

#### HONORS

The degree of Bachelor of Laws or of Juris Doctor "with distinction" will be awarded the student who obtains a general average of *A* in the work for the degree.

#### IN THE GRADUATE COURSE

These degrees are Master of Laws (LL.M.), Master of Comparative Law (M.Comp.L.), and Doctor of Juridical Science (S.J.D.).

#### REQUIREMENTS FOR THE DEGREE OF MASTER OF LAWS

To be recommended for this degree the student must have completed a residence period of not less than one academic year. He must have completed with a satisfactory average twenty credit hours of subjects in the graduate curriculum. In individual cases, third- or fourth-year subjects listed in the professional curriculum may be included in the program of study. All requirements for this degree must be completed in this Law School in a period not exceeding two academic years.

**REQUIREMENTS FOR THE DEGREE OF MASTER OF COMPARATIVE LAW**

To be recommended for this degree the student must have completed a residence period of not less than one academic year. He must have completed satisfactorily twenty-four credit hours of approved subjects in the curriculum of the Department of Law or of such other departments of the University as the faculty of the Law School shall approve.

**REQUIREMENTS FOR THE DEGREE OF DOCTOR  
OF JURIDICAL SCIENCE**

To be recommended for this degree the student must have completed a residence period of not less than one academic year. He must have pursued a course of study and research designated by his consultative committee and approved by the Committee on Graduate Students. At the conclusion of his first year of residence, or at such other time as the Committee on Graduate Students may set, the candidate must pass an oral examination in those fields of study selected by the consultative committee. This examination shall be conducted by the consultative committee and such other members of the faculty and qualified experts from other research institutions as may be selected by the Committee on Graduate Students.

Not later than the date specified in the University calendar the candidate must submit to the Dean one typewritten original and two legible and complete carbon copies of his thesis in its final form and also a typewritten summary of the thesis consisting of not more than 2,500 words. To be acceptable the thesis must, in the opinion of the examining committee, constitute a substantial contribution to the field of law concerned and be suitable for publication. Additional information will be supplied by the Chairman, Committee on Graduate Students.

The summaries of accepted theses will be printed in a volume forming a number of the University BULLETIN. The successful candidate for the doctorate is required, before receiving his degree, to pay a fee to cover the expense of printing the summary of his thesis.

COURSES OF INSTRUCTION





## COURSES OF INSTRUCTION

The courses of instruction listed below are subject to change. The University reserves the right to withdraw any course announced.

The number which precedes the name of a course indicates the term in which that course is offered. An odd number indicates that the course is offered in the fall term; an even number, that it is offered in the winter term; and a double number (e.g., 241-42), that it begins in the fall and continues in the winter term.

First-year courses are numbered from 101 to 200; second-year courses, from 201 to 300; third year courses, from 301 to 400; and graduate courses, from 401 to 500.

The number of hours of credit given for the satisfactory completion of a course is indicated in parentheses after the name of the course. Thus, a year course giving two hours of credit each term is marked (2-2), and a term course giving two hours of credit is marked (2).

Morning classes begin at 9:00 a.m. Evening classes begin at 5:50 p.m.

102 *Agency* (4)

Cooper, ———

Problems of agency in the conduct of business. Seavey, Cases on Agency. Morning and evening sections.

112 *Contracts* (4)

Merrifield, ———

Promissory obligation: offer and acceptance, consideration, statute of frauds, formal instruments, rights of third parties, assignments, and joint obligation, conditions, performance, discharge. Casebook to be announced. Morning and evening sections.

Summer term 1948

123 *Criminal Law and Procedure* (4)

Murdock, Cooper

Elements of criminal liability; specific crimes; combinations of persons in crime; criminal procedure. Harma, Cases and Materials on Criminal Law and Procedure, 2d ed. Morning and evening sections.

Summer term 1948

129 *Judicial Process I* (2)

Fryer, Benson, Merrifield

Introduction to the study of law, providing training in the method and technique of case-law followed by practice in use of law books and legal writing. Attention is given to literature in law, especially utility of legal concepts, and the use of precedent. The course also covers a background on development of the English and American legal systems, and treats organization of the judiciary and members of the bar, with emphasis on problems of legal ethics. Casebook to be announced. Morning and evening sections.

- 130 *Judicial Process II* (2) Fryer, Benson, Dorsey  
A continuation of *Judicial Process I*. Introduction to the study of procedural law by examination of basic concepts of law relating to pleading and practice. Problems raised by motions at trial and the scope of appeal. Casebook to be assigned. Morning and evening sections.
- 133 *Property I* (4) Fryer, Dorsey, Eckhardt  
Concepts of property, possession and ownership; legal relations with respect to chattels and documentary intangibles created by gift, sale, pledge, lien, bailment, etc. Fryer, *Cases on Property*, Vol. II, 2d ed.; Fryer, *Readings on Personal Property*, 3d ed. Morning and evening sections.  
Summer term 1948.
- 138 *Property II* (4) Benson, Eckhardt  
Real property; introduction; estates, seisin, landlord and tenant; future interests at common law and under the statutes of uses and wills; merger; elementary study of remoteness and powers; adverse possession; prescription; natural rights. Fryer, *Cases on Property*, Vol. I and II, 2d ed. Morning and evening sections.
- 141 *Torts* (4) Van Vleet, Merrifield  
Civil liability for harms to legally protected interests. Thurston and Seavey, *Cases on Torts*. Morning and evening sections.
- 205 *Civil Procedure* (4)  
Function and composition of pleadings, including their relation to proof. Emphasis is upon reforms, as exemplified by modern code provisions and the Federal Rules of Civil Procedure. Clark, *Cases on Pleading and Procedure*, 2d ed. Morning and evening sections.
- 214 *Constitutional Law* (4) Collier  
Historical introduction; judicial approach and methods; doctrine of the separation of powers; powers of the National Government; the federal system; relation of the state courts and the federal courts. Dodd, *Cases on Constitutional Law*, 3d ed. Morning and evening sections.  
Summer term 1948.
- 223 *Domestic Relations* (2) Compton  
Marriage, annulment, and divorce; rights of husband and wife; rights of parent and child; infants; conflict of laws involving problems of marriage evasion and minority divorce. Mallon and Compton, *Cases on Domestic Relations*. (Not offered in 1948-49.)  
Summer term 1948.
- 231 *Equity* (4) Spaulding  
Specific performance of contracts; equitable conversion; statute of frauds; mutualism; conditions; defenses; equitable servitudes; powers of an equity court; effect of decree; interpleader; bills of peace; cloud on title; rescission and reformation; mistake. Chace and Simpson, *Cases on Equity*. Morning and evening sections.

- 234 *Evidence* (4) Fryer  
Function of court and jury; witnesses; hearsay, opinion, and circumstantial evidence; proof of authenticity and contents of writings. *McCormick Case on Evidence*, 2d ed. Morning and evening sections.  
Summer term 1945.
- 238 *International Law* (4) Murdoch  
Customary and treaty rules and status of states; diplomatic and consular agents; treaty interpretation; international law, international courts, treaty procedure, treaty nullity. *Hudson, Cases on International Law*, 2d ed. Morning and evening sections.
- 240 *Negotiable Instruments* (4)  
Bills of exchange, promissory notes and checks, especially under the *Negotiable Instruments Law*. *Manning and Keeling, Manual*.  
Summer term 1945.
- 248 *Property III* (2) Benson, E. A. Ehrhardt  
Conveyances, rents, easements, profits, licenses, covenants running with the land, and mortgages. *McQuinn, Conveyances in the Maryland-adjacent system*.  
Summer term 1945.
- 251 *Restatements* (4)  
Local remedies for protection of interests created or controlled by persons in various circumstances, liability, and remedies. *Restatements*, 1st ed. 1934-40.  
Summer term 1945.
- 253 *Trade Regulation and After Trade Practices* (4) Oppenheim  
United States practices of protection law and trade laws and trade customs. Trade marks and trade names, including Trade Mark Act of 1902. Monopolization. Trade agreements as business law. Four state Trade Commissions, independent state anti-monopolization practices, licenses and permits. Disregard of economic goods and business methods. State Fair Trade Act (trade name monopolies). Price discrimination. State and Federal Public Utilities Act. State taxation practices after federal tax. Income based on contract. Commercial liability. Monopolization business, state constituting antitrust legislation with economic and business relations. *Oppenheim, Cases on United States Trade Practices*. Morning and evening sections.
- 254 *Wills* (2) Benson, E. A. Ehrhardt  
Formation and execution of wills, testate and intestate succession. *Manning and Keeling, Cases on Wills and Administration*, 2d ed. Morning and evening sections.  
Summer term 1945.

256 *Sales* (2)

Common law, Uniform Sales Act and related statutes. Intention to transfer of property interest (specific, unascertained, and future goods); specification and appropriation; cash and conditional sales; C.O.D., F.O.B., and C.I.F. shipments; negotiable bills of lading and warehouse receipts; trust receipts; fraud on seller, retention of possession and back sales; remedies of seller and buyer, including sale for price, stoppage in transit, seller's warranty, inspection. Catalog to be announced. Morning and evening sections.

Summer term 1948.

303 *Administrative Law* (4)

Davison

Legislative setting for administrative bodies; judicial control of administrative action; public utilities, taxation, alien laws. Federal Trade Commission, workmen's compensation, etc. Katz, *Cases on Administrative Law*. Morning and evening sections.

312 *Business Associations* (4)

Davison, Compton

Forms of business associations; legal requirements as to contributions of capital; powers and rights of corporations, corporate officials, and stockholders. Catalog to be announced. Morning and evening sections.

Summer term 1948.

315 *Conflict of Laws* (4)

Van Vleck

Study of cases involving foreign elements; principles of jurisdiction and limitations upon its exercise; procedure, torts, workmen's compensation, contracts, property, family law, administration of estates, business associations. Clegham, Dowling, Godrich, and Griswold, *Cases on Conflict of Laws*, 2d ed. Morning and evening sections.

Summer term 1948.

317 *Creditors' Rights* (4)

This course deals with remedies of secured creditors. The topics considered include judgments, fraudulent conveyances, creditors' agreements, equity and statutory receiverships and liquidations. The general approach is that of law administration. (Not offered in 1948-49.)

Summer term 1948.

321-22 *Current Decisions* (2-2)

Davison

Required of, and limited to, members of the student staff of the *Law Review*. Time to be arranged.

326 *Federal Jurisdiction* (3)

Couper

Constitutional origins and powers of federal courts; sources of law applicable to them; business and extent of jurisdiction of federal courts. McCormack and Chadbourne, *Cases on Federal Courts*. Evening.

327 *Insurance* (3)

Lipscomb

The insurance device in life, property, and other risks. *Vanderbilt Cases on Insurance*, 3d ed. Evening.

Summer term 1948.



332 *Labor Law* (4)

Laws applicable to strikes, picketing, boycotts, etc.; organization and representation of employees; negotiation of collective bargaining contracts; international and national relations; settlement of wage disputes (Arbitration, mediation, Conciliation). Cases, legislative and administrative material, problems. Evening.

333-34 *Legislation* (2-2)

Ellis

Justicial aspects of the legislative process; forms and types of statutes; methods of statutory interpretation; structure and drafting. Read & McDonald. Cases and Materials on Legislation. Evening.

335-36 *Missouri Court* (2-2)Laws, Morris, Craighill,  
Kirkland, Edgerton

Open only to students who have completed fifty credit hours. Prerequisite: Law 2-5 and 334. Morning and evening sections.

345 *Patent Law* (2)

Subjective patent law; patentability, reviving, use and enforcement of patents. Evening.

346 *Patent Office Practice* (2)

Rules of Practice, appeal and interference procedure. Evening.

349-50 *Patent Missouri Court* (2-2)

This course may be elected instead of Law 335-36 to satisfy the Missouri Court requirement. Both subjects may not be counted toward a degree. Evening.

351 *Public Utilities* (2)

Davison.

Limits of regulation of businesses affected with public interest; ascertainment of value of property used for the public service and the basis of adequate rates of return. Welch. Cases on Public Utilities, 34-1. Morning and evening sections.

Second term, 1948

362 *Security Transactions* (4)

Security interests in real and personal property, their creation, transfer, enforcement, and extinguishment, together with security problems in the fields of company and bankruptcy. Caslick to be announced. Morning and evening sections.

373 *Taxation* (4)

Collier

Elementary course on basic concepts of federal tax system. Attention given state inheritance and income taxes. Problems of jurisdiction to tax, construction of tax statutes, methods of judicial review of administrative actions in the tax field, modern excise taxes on business concerns. McGill and Maguire. Cases on Taxation, 4th ed. Morning and evening sections.

375-76 *Taxation—Federal* (2-2)

Federal income, gift and estate taxes, and selected federal tax problems. Evening.

- 378 *Trade Regulation II—Federal Anti-Trust Laws* (4) Oppenheim  
 Restraints of trade at common law. Public policy under Sherman Anti-Trust Act of 1890 and Federal Trade Commission and Clayton Acts, including merger, consolidation and monopoly. Limit on exclusion activities by exclusive agreements, trade associations, international cartels. Special practices such as resale price maintenance, deferred price system, exclusive arrangements and tying devices, trade boycotts. Patents and copyrights under antitrust laws. Remarks: Oppenheim, Cases on Federal Anti-Trust Laws. Morning and evening sessions.
- 381-82 *Trusts* (2-2) Denney  
 Creation, elements, administration, enforcement, termination. Liability to and of trust parties. Routine and non-routine trusts. Burt, Cases on Trusts. Morning and evening sessions.
- 403-4 *Administrative Law Seminar* (2-2) Davison  
 Research seminar course in special problems, including the study of specific administrative agencies, federal in nature. Time to be arranged.
- 405 *Admiralty* (2) Alden  
 Federal and state jurisdiction; jurisdiction over waters, ports, contracts, torts, claims in maritime matters, etc.; laws applicable to maritime waters and maritime liens. Sayre, Cases on the Law of Admiralty. Evening.
- 415-16 *Comparative Law* (2-2) Murdock  
 Historical and comparative study of some of the institutional and principles of the Roman and modern Civil Law (that of Spain and Central America and that of the Countries of France) compared with those of the Common Law, the influence of the former upon the latter. Evening.
- 421-22 *Constitutional Law Seminar* (2-2) Collier  
 Research seminar in contemporary problems in constitutional law. Time to be arranged.
- 429-30 *International—Comparative Law Seminar* (2-2) Murdock  
 Research seminar in contemporary problems. Time to be arranged.
- 434 *Interstate Commerce Commission Law and Procedure* (2) \_\_\_\_\_  
 Interstate Commerce Act; the Interstate Commerce Commission; practice and procedure before the Commission. Evening.

435 *Jurisprudence* (2)

Collier

History of jurisprudence; schools of jurists, particularly the nineteenth century schools; sociological jurisprudence; theories of justice; the nature of law; law and morals; law and the state; the scope and subject matter of law; sources and forms of law; the traditional element; analysis of general legal conceptions. Hall, *Readings in Jurisprudence*. *Morning and evening sessions.*

448-49 *Municipal and Government Corporations*  
(2-2)

McIntire

Municipal corporations: organization, powers, functions and legal relations of local governmental units. Federal corporate agencies: organization, powers, functions, and legal relations of functional governmental units separately illustrated. *Tiske and McIntire, Cases on Municipal Corporations*. *Evening.*

451-52 *Trade Regulation Seminar* (2-2)

Oppenheim

A research seminar in specific current problems relating to federal anti-trust laws and unfair trade practices. Time to be arranged.

# DEGREES CONFERRED

## BACHELOR OF LAWS

MAY 28, 1947

Barr, John Lester, Jr. A.B. 1936, Harvard University Birdsell, John Edmund (With distinction) A.B. 1945, The George Washington University	Md. D.C.	Hobbes, Max Burton A.B. 1937, Washington and Lee University	Fla.
Cabell, William Todd Davis, Fred Wilson A.B. 1938, Marshall College DeLong, Adley Robbins A.B. 1941, Washington and Lee University	N.Y. W.Va. D.C.	Leach, Orr Wellborn, Jr. A.B. 1940, University of Oklahoma Kastner, Lynda Anderson A.B. 1941, Nebraska Wesleyan University	Okla. D.C.
Deitch, Morris R. Jones Fellman, Melvin William A.B. 1941, The George Washington University	N.Y. D.C.	Lutmer, John Austin, Jr. B.S. 1939, Franklin College Leonard, Robert Sterling A.B. 1940, The George Washington University	Me. Me.
Freeland, Ralph Lynn, Jr. A.B. 1939, M.E. 1941, Stanford University	Va.	A.M. 1941, Harvard University Mandow, Lawrence Albert B.S. 1941, University of Minnesota	Main. Va.
Geizer, John Hermann A.B. 1938, The George Washington University	Va.	Marshall, Harry Taylor, Jr. A.B. 1941, University of Virginia Masterson, Walter Bernard M-Leon, Rufus Denale	N.Y. Ky.
Glass, Thomas Samuel A.B. 1942, Tulane University Glenn, Iowa Edward Gronberg, Isadore I. A.B. 1941, University of Buffalo	Va. Iowa N.Y.	A.B. 1941, Marshall College Murphy, William A. Rosen, Carol Dean B.S.C. 1942, State University of Iowa Rosen, Walter Morris, Jr. B.S. 1942, Cornell College	D.C. Va.
Hamlin, Edmund Tarr Ph.D. 1926, University of Wisconsin Hanes, Richard Woody Hill, Wayne Kemble A.B. 1941, Dartmouth College Hirschman, Max Abraham B.S. in S.S. 1945, M.S. in Ed. 1946, College of the City of New York	Wis. Iowa Mass. D.C.	Scherr, Robert Arthur A.B. 1942, University of Wisconsin Tarrant, Charles Eugene Wahl, Richard Albert B.S. in M.E. 1944, University of Wyoming Watson, Bruce Persch Wells, Alfred Washington A.B. 1939, Yale University	Wis. Ia. Va. D.C. N.Y.

NOVEMBER 11, 1947

Ashton, Rudolph Alexander A.B. 1941, The George Washington University	Miss.	Ellis, John Herbert A.B. 1946, The George Washington University	D.C.
Billingsley, Joseph Addison, Jr. A.B. 1944, Washington and Lee University	Va.	Gartley, Edwin Barry Guthrie, Raymond Paul Griff, Ethel Rayner Tapper A.B. 1944, Bowdoin College	Utah D.C. N.Y.
Brennan, John Wright A.B. 1943, Catholic University of America	D.C.	Harrington, Joseph Michael A.B. 1944, University of Iowa	Iowa
Caffey, Charles Shelby, Jr. A.B. 1940, The George Washington University	Tenn.	Hoffman, Olin Hadel Jennibet, Louis A.B. 1942, Villanova College	D.C. D.C.
Cole, Joseph Robert Cooper, Wesley William Croaton, Hardy Washburn A.B. 1942, University of Richmond Dulley, Samuel Charles (With distinction) B.S. 1936, Washington College B.E. 1945, Johns Hopkins University Ederton, John David (With distinction)	Conn. Va. Ark. Va. D.C.	Klass, Fritz B.Chem.E. 1948, College of the City of New York Kline, William Howard John B.S. in Chem. Eng. 1948, Pennsylvania State College Kuske, Esther Joseph B.S. 1922, Northwestern University	N.Y. Pa. Pa. D.C.



London, Ernest Ayle, Jr. A.B. 1946, University of Maryland	MD	Rhodes, Lee M. H. A.B. 1941, The George Washington University	VA
Mack-Master, Arthur James B.B.A. 1944, Southern Methodist University	Tex	Rhodes, Peter A. and Susan Rhodes, Stuart Hamilton A.B. 1944, The George Washington University	Ind Ind
McClintock, Donald Johnson A.B. 1948, College of Idaho	Idaho	Schaefer, J. A.B. 1947, Princeton College	DC
McClintock, Ernest Louis M-Key, Richard Kendall New York University	Me Conn	Shaw, Mary Catherine Simpson A.B. 1944, Princeton College	DC DC
New River School, Jr. New York City	Conn	Shaw, Samuel Benjamin, Jr. A.B. 1947, The George Washington University	DC
O'Brien, Edward Francis A.B. 1947, University of Missouri	Conn	Shaw, Frank Hunter A.B. 1942, The George Washington University	DC MD
O'Brien, Mary Ann McCune A.B. 1947, The George Washington University	MD	Vanderbilt, Arthur B.S. 1944, M.F. 1946, College of the City of New York	NY

FEBRUARY 23, 1948

Beckwith, William Henry Bell, Jay Young A.B. 1946, Florida State College for Women	Me Fla	Page, Helen Bell A.B. 1947, The George Washington University	DC
Brady, John Curtis Cerrano, Donald, Jr. A.B. 1946, University of Pittsburgh	Pa Pa	Pratt, Robert Anthony Reyes, William A.B. 1946, Rutgers University	Conn N.Y.
Cock, Walter McQueen Culver, Ralph Johnson A.B. 1947, University of Maryland	Me DC	Reed, Raymond A. A.B. 1947, The George Washington University	DC
Dickerson, Rella Pace Duffy, Benjamin Weiss A.B. 1944, University of Virginia	MD DC	Roberts, Arthur Leonard, Jr. A.B. 1944, College of William and Mary	N.Y.
Gard, Daniel, Jr. Greenfield, George Albert A.B. 1948, College of Idaho	Ky Idaho	Rodda, Charles Cox, Jr. A.B. 1944, University of Oklahoma	Okla
Grove, John Humphrey Harris, Webb Cook III A.B. 1947, Yale University	Ill Ill	Roberts, Robert Marshall Robinson, Samuel David A.B. 1947, The George Washington University	MD DC
Harrison, Andrew Paul, Jr. B.S. 1943, Massachusetts Institute of Technology	DC	Schmidt, Louis Herman B.S. 1944, United States Naval Academy	Conn
Jones, Daniel A. Kenny, John Alexander B.E. 1943, Cornell University	DC DC	M.B.A. 1947, Harvard University Seymour, John Thomas, Jr. A.B. 1947, Hamilton College	NY NY
Lewis, George Robert Newington, Frank Ogle A.B. 1941, Colgate College	DC Me	Thompson, Berne Ann A.B. 1946, The George Washington University	VA
O'Brien, Roscoe Brockwell (Wife deceased) A.B. 1947, Harvard University	MD	Whitehouse, Henry A.B. 1941, College of William and Mary	NY
O'Brien, William Gray B.S. in Ed. 1947, Southwest Missouri State Teachers College	Me		

MAY 26, 1948

Abbott, Robert Sutton A.B. 1944, Kent State University	Ohio	Bryant, Robert Graham B.S. 1946, United States Naval Academy	NY
Allen, Charles R. Jr. B.S. 1944, Pennsylvania State College	DC	Burton, L. B. A.B. 1946, Yale University	Ark
Baker, Dorothy Anna A.B. 1947, The George Washington University	Mass	Burns, Henry Rank Bach, Lawrence Borwick, Lewis Edward	Pa Ark N.C.
Bennett, Russell Howard Benson, Harold Clark Berry, Benjamin Franklin A.B. 1944, University of Washington	DC Utah Wash	Bryant, John Roy A.B. 1947, The George Washington University	Okla

[illegible]

Wester, W. Ward Harris	N.Y.	Wester, H. Ward Harris	Conn.
A.B. 1942, University of Minnesota		A.B. 1942, University of Conn.	
Wester, W. Ward Harris	N.Y.	Wester, W. Ward Harris	Conn.
A.B. 1942, The George Washington University		Wester, W. Ward Harris	

# JURIS DOCTOR

MAY 28, 1947

Dr. W. Ward Harris	N.Y.	Dr. W. Ward Harris	Conn.
A.B. 1942, University of Minnesota		A.B. 1942, University of Conn.	
A.M. 1943, University of Conn.		A.M. 1943, University of Conn.	
Dr. W. Ward Harris	N.Y.	Dr. W. Ward Harris	Conn.
A.B. 1942, University of Minnesota		A.B. 1942, University of Conn.	
Dr. W. Ward Harris	N.Y.	Dr. W. Ward Harris	Conn.
A.B. 1942, University of Minnesota		A.B. 1942, University of Conn.	

NOVEMBER 11, 1947

Dr. W. Ward Harris	N.Y.	Dr. W. Ward Harris	Conn.
A.B. 1942, University of Minnesota		A.B. 1942, University of Conn.	
Dr. W. Ward Harris	N.Y.	Dr. W. Ward Harris	Conn.
A.B. 1942, University of Minnesota		A.B. 1942, University of Conn.	

FEBRUARY 23, 1948

Dr. W. Ward Harris	N.Y.	Dr. W. Ward Harris	Conn.
A.B. 1942, University of Minnesota		A.B. 1942, University of Conn.	
A.M. 1943, University of Conn.		A.M. 1943, University of Conn.	

MAY 20, 1948

Dr. W. Ward Harris	N.Y.	Dr. W. Ward Harris	Conn.
A.B. 1942, University of Minnesota		A.B. 1942, University of Conn.	
Dr. W. Ward Harris	N.Y.	Dr. W. Ward Harris	Conn.
A.B. 1942, University of Minnesota		A.B. 1942, University of Conn.	
Dr. W. Ward Harris	N.Y.	Dr. W. Ward Harris	Conn.
A.B. 1942, University of Minnesota		A.B. 1942, University of Conn.	
Dr. W. Ward Harris	N.Y.	Dr. W. Ward Harris	Conn.
A.B. 1942, University of Minnesota		A.B. 1942, University of Conn.	

# MASTER OF LAWS

MAY 28, 1947

Dr. W. Ward Harris	N.Y.	Dr. W. Ward Harris	Conn.
A.B. 1942, University of Minnesota		A.B. 1942, University of Conn.	
Dr. W. Ward Harris	N.Y.	Dr. W. Ward Harris	Conn.
A.B. 1942, University of Minnesota		A.B. 1942, University of Conn.	
Dr. W. Ward Harris	N.Y.	Dr. W. Ward Harris	Conn.
A.B. 1942, University of Minnesota		A.B. 1942, University of Conn.	
Dr. W. Ward Harris	N.Y.	Dr. W. Ward Harris	Conn.
A.B. 1942, University of Minnesota		A.B. 1942, University of Conn.	

## NOVEMBER 11, 1947

Dorsett, Harold Lee	Wyo.	Scanlan, Alfred Long	N.J.
LL.B. 1942, The George Washington University		A.B. 1941, Columbia University	
LL.B. 1942, The George Washington University		LL.B. 1946, The George Washington University	
LL.B. 1942, Boston University	Mass.		
M.K. 1942, William Thomas	S.C.	Sorrell, Wilfred Byron	Ala.
A.B. 1925, A.M. 1926, University of South Carolina		LL.B. 1942, National University	
LL.B. 1947, The George Washington University			

## FEBRUARY 23, 1948

Baker, Fred Yancy	Tex.	Harris, Louis James	N.Y.
LL.B. 1942, University of Texas		A.B. 1932, Cornell University	
Carter, Lee Augustine	Va.	LL.B. 1939, I.S.D. 1942, St. Lawrence University	
B.S. 1934, Massachusetts Institute of Technology			
LL.B. 1942, The George Washington University		Hume, Elmer Clarence	Pa.
LL.B. 1942, The George Washington University		LL.B. 1947, University of Pennsylvania	
LL.B. 1940, LL.B. 1946, University of Oklahoma	Okla.	Roberts, Nathan Jay	
A.B. 1940, LL.B. 1946, University of Oklahoma		A.B. 1926, Syracuse University	
LL.B. 1942, The George Washington University	Fla.	J.D. 1929, University of Pennsylvania	
LL.B. 1942, The George Washington University		Smith, John Russell	Pa.
LL.B. 1942, The George Washington University		LL.B. 1945, The George Washington University	
LL.B. 1947, The George Washington University			

## MAY 26, 1948

Baker, Fred Edouard	Pa.	Keyt, William Ward	Pa.
A.B. 1942, LL.B. 1947, The George Washington University		A.B. 1928, Ohio Wesleyan University	
LL.B. 1948, The George Washington University	Ala.	LL.B. 1935, The George Washington University	
LL.B. 1948, The George Washington University		Pearson, Louisa Rita	Calif.
Costello, Richard Edward	Calif.	A.B. 1930, Georgian Court University	
LL.B. 1934, University of California		LL.B. 1940, University of California	
LL.B. 1947, University of California	D.C.	Priest, Harold Bernard	Pa.
LL.B. 1947, University of California		A.B. 1925, LL.B. 1928, University of Pennsylvania	
LL.B. 1947, University of California	Nev.	Scott, Elmer Louis	Wyo.
LL.B. 1939, The George Washington University		A.B. 1925, University of Washington	
LL.B. 1939, The George Washington University	D.C.		
LL.B. 1938, M.S. in Ed. 1940, College of the City of New York			
LL.B. 1947, The George Washington University			

## DOCTOR OF JURIDICAL SCIENCE

MAY 26, 1948

Stetler, James	Ga.
B.S. 1925, United States Naval Academy	
LL.B. 1948, The George Washington University	



## STUDENTS REGISTERED

SUMMER TERM 1947

FALL AND WINTER TERMS 1947-48

Abbe, Janet Louise	Mich.	Atkinson, Ethel Kathryn	Ohio
Ables, Robert Sutton	Ohio	B.S. 1947, Carnegie Institute of Technology	
AB, 1944, Kent State University		A.M. 1947, Western Reserve University	
Abel, Leonard Terrell	D.C.	Agnew, William George	Wa.
Abel, James L., Mary Jane	Va.	B.L.E. 1947, University of Washington	
Abney, Arthur Lowell	Ill.	Agnew, Margaret Constance	D.C.
B.S. 1947, University of Illinois		Agnew, Theodore Allen	D.C.
Abrahamson, Joseph Luke	D.C.	AB 1947, University of Virginia	
Abrahamson, Charles	N.Y.		
Abrahamson, Milton E.	N.Y.	B	
B.B.A. 1947, College of the City of New York		Bates, Mary Louise	Mo.
Adams, Frances Grunitt	D.C.	AB 1947, The George Washington University	
B.S. 1947, Washington and Lee University		Bauer, David	Calif.
Adler, Evelyn	Va.	Bauer, Robert Thomas	Mo.
B.S. 1947, New York University		AB 1947, University of Maryland	
Adler, Peter A.	Hawaii	Bauer, William Albert	Tex.
AB 1947, University of Hawaii		Bauer, Cary	Ill.
Adair, William David	D.C.	Baker, Douglas Allen	Mass.
Adair, Curtis Jr.	Va.	AB 1947, The George Washington University	
B.L.E. 1947, Ohio State University		Baker, Harold Fred	N.Y.
Adams, Allen Jackson	Miss.	Baker, Norma Corinne, Jr.	Mo.
Adair, Peter and Lewis	Kent.	AB 1947, Columbia College	
Adler, Charles Robert	D.C.	Baldwin, Albert Norman	D.C.
B.S. in Agr. Eng., 1944, Pennsylvania State College		Baldwin, Roy	Mo.
Adler, Jonathan H.	D.C.	Baldwin, John Henry	Ill.
Adler, Berd Lorette	Mo.	Baldwin, Louis M.D.	Pa.
Adler, L. J.	D.C.	AB 1947, University of California	
Adrian, Andrew Taylor	D.C.	Baker, Anna Thelma	Pa.
B.S. 1947, University of Maryland		B.S. 1947, Pennsylvania University	
Adair, Ernest Bradford	D.C.	Baker, Frederick Walter	Calif.
Adair, Robert Harlan	D.C.	AB 1947, The George Washington University	
Adair, Robert Reynolds, Jr.	Va.	Baker, George Lewis	D.C.
B.S. 1947, University of Richmond		AB 1947, Western College	
Adair, Harold	N.Y.	M.A. 1947, Holy Cross University	
AB 1947, Brooklyn College		Baker, John Richard, Jr.	Calif.
Adair, Alfred Lee	Va.	AB 1947, Western College	
AB 1938, Missouri University		Baker, Benjamin A.	D.C.
Adair, Harry Emmert, Jr.	Va.	B.S. B.L.E. 1947, Illinois Institute of Technology	
AB 1938, Lafayette College		Baker, Frank Deane	Mo.
Adair, Oliver L.	Wa.	Baker, John	Ill.
Adair, James Scott	D.C.	B.S. 1947, M.B.E. 1947, University of Illinois	
AB 1944, University of Arizona		Bartlett, Wayne Thomas	Mass.
Adair, Guy Alexander	Mo.	B.S. 1947, Western Polytechnic Institute	
Adair, Herbert Edward	Ohio	Bartlett, Victor Eugene	Va.
Adair, Jack E.	N.Y.	Ph.D. 1947, Maxwell	Va.
B.S. 1947, Hamilton College		Bartlett, James Patrick	D.C.
Adair, William Lewis	Pa.	Bartlett, J. L.	Mo.
AB 1947, Ohio State University	Ohio	B.S. 1947, Johns Hopkins University	
Adair, Susan Howard	D.C.	Bartlett, William Chester, Jr.	Va.
Adair, Randolph Alexander	Mo.	B.S. 1947, University of Virginia	
AB in Geol. Eng., The George Washington University		Bartlett, Russell Houston	Ill.
Adair, William E.	S.C.	Bartlett, Stephen Harvey	D.C.
AB 1947, University of South Carolina			

Brown, Walter Robert	D.C.	Brown, Robert Gordon	N.Y.
B.S. 1947, Maryland University		B.S. 1947, United States Naval Academy	
Brumard, Ernest Carroll	Va.	Brumby, Harold George	Md.
B.Sc. 1946, N.S.A.	D.C.	M.B. 1947, University of Missouri	
Brown, Joe Lee	Va.	B.S. 1947, United States Naval Academy	
A.B. 1946, Phillips University		B.S. 1947, United States Naval Academy	
M.S. 1942, University of Oklahoma		B.S. 1947, Washington and Lee University	
Brown, Abel Mow	D.C.	Brown, James Raymond	Conn.
B.S. 1947, Iowa Philip	RI	P.E. 1947, Yale University	
A.B. 1946, Brown University		Brown, S. M.	Ind.
Baker, Martin Nathan	D.C.	A.B. 1946, State University of Iowa	
Baker, William Henry	Mass.	Baker, John Edmund	D.C.
Baker, Arthur Larson, Jr.	N.I.	A.B. 1947, The George Washington University	
Baker, Donald Lee	D.C.	Dick, George E. J.	Va.
B.S. 1947, University of Utah		P.S. 1947, University of South Carolina	
Baker, William Brown	D.C.	Baker, Harry Paul	Mass.
A.B. 1947, The George Washington University		A.B. 1947, Yale University	
Baker, John Andrew	Conn.	Baker, William Henry	Ill.
Baker, Joseph Leroy	Conn.	M.E. 1947, Northwestern University	
B.S. 1946, M.I. 1946, Thomas Institute of Technology		A.B. 1947, Iowa Brown University	
Baker, Joe Y.	Ind.	B.S. 1947, University of South Carolina	
A.B. 1946, Florida State College for Women		B.S. 1947, Northwestern University	
Baker, Joe Murray	Orla.	Baker, John F.	Conn.
B.S. 1947, Oklahoma University		B.S. 1947, University of Virginia	
Baker, Tom	Mass.	Baker, Joseph Warren	Va.
A.B. 1947, Southeast Missouri State University		Baker, Paul Arthur	Va.
M.S. 1947, University of Cincinnati		B.S. 1947, United States Naval Academy	
Baker, George S.	MI.	Baker, Joseph	MI.
A.B. 1947, Minnesota College		B.S. 1947, University of Virginia	
M.A.S. 1947, Pennsylvania College		Baker, William Henry	Wis.
Baker, Leonard Thomas	Ind.	B.S. 1947, University of Wisconsin	
Baker, Robert S.	Pol.	Baker, William Henry	D.C.
H.B. 1947, University of the Pacific		B.S. 1947, University of Maryland	
Baker, Robert Campbell, Jr.	Va.	Baker, William Henry, Jr.	N.D.
B.S. 1947, University of Virginia		B.S. 1947, University of North Carolina	
A.B. 1947, Gustav College	Va.	Baker, Norman Stark	D.C.
Baker, Ann T.	Ind.	B.S. 1947, Worcester Polytechnic Institute	
A.B. 1947, Indiana University		Baker, Thomas Hayden	N.C.
Baker, William Taylor, Jr.	Cal.	A.B. 1947, Miami University	
A.B. 1947, University of Georgia		Baker, James Philip	Mass.
Baker, Henry Clark	Utah.	B.S. 1947, Western University	
Baker, Carl F.	Utah.	Baker, John R.	Ind.
A.B. 1947, Utah College	Utah.	Baker, John R.	N.Y.
Baker, James M.	Utah.	B.S. 1947, Brooklyn College	
B.S. 1947, Utah State Agricultural Experiment Station		B.S. 1947, The George Washington University	
Baker, Paul	N.D.	Baker, William Henry, Jr.	N.D.
B.S. 1947, University of North Carolina		Baker, William Henry, Jr.	N.D.
Baker, Mary	Pa.	Baker, William Henry, Jr.	N.D.
B.S. 1947, University of North Carolina	Va.	Baker, William Henry, Jr.	N.D.
Baker, Herbert Russell, Jr.	RI	Baker, William Henry, Jr.	N.D.
B.S. 1947, Brown University		Baker, William Henry, Jr.	N.D.
Baker, Harry	N.Y.	Baker, William Henry, Jr.	N.D.
Baker, Arthur Henry	Va.	Baker, William Henry, Jr.	N.D.
B.S. 1947, United States Naval Academy		Baker, William Henry, Jr.	N.D.
Baker, John Conrad	N.Y.	Baker, William Henry, Jr.	N.D.
Baker, Robert E.	Va.	Baker, William Henry, Jr.	N.D.
A.B. 1947, University of Washington		Baker, William Henry, Jr.	N.D.
Baker, Ernest M.	Ark.	Baker, William Henry, Jr.	N.D.
B.S. 1947, University of Alabama		Baker, William Henry, Jr.	N.D.
Baker, Lee James	N.C.	Baker, William Henry, Jr.	N.D.
A.B. 1947, Duke University		Baker, William Henry, Jr.	N.D.

Brown, D. Benjamin A.	MI	Brown, John Bennett	N.J.
B.S. 1941, The George Washington University		B.S. 1943, University of Alabama	
Buck, Paul Arnold	VA	Browning, Philip Fernald, Jr.	D.C.
B.S. in C.E. 1934, University of Kansas, City		B.S. 1944, University of Tennessee	
M.B.A. 1938, Harvard University		Brown, May James	Kan.
A.M. 1944, Columbia University		A.E. 1941, B.S. 1941, Fair Haven, Kansas State College	
Brown, Lewis Edward	N.C.	Brown, Vernon Walter	S.D.
B.S. 1947, Ohio State	Pa.	B.S. in Ed. 1947, University of South Dakota	
Brown, Marjorie Clara	Pa.	LL.B. 1947, The George Washington University	
B.S. 1947, Temple University		Brown, Robert S.	VA
B.S. 1947, Temple University	D.C.	B.S. 1946, M.S. 1946, Southern University	
A.E. 1947, Stanford University	VA	Brown, Samuel Anthony	Pa.
Brown, Fred Young	Tex.	B.S. 1941, Johns Hopkins University	
LL.B. 1941, University of Texas		Brown, John Blaine	
Brown, Fred Paul	D.C.	Brown, John Edward	VA
H.B. 1948, University of Maryland		B.S. 1941, M.S. 1941, Virginia Polytechnic Institute	
Brown, John Carter	VA	Brown, John James	D.C.
Brown, Lawrence DeVal, Jr.	Calif.	B.S. 1941, North Carolina University	
B.S. 1941, United States Coast and Geodetic Academy		Brown, Katherine Frances	Ark.
Brown, William Colorado	N.Y.	A.B. 1946, Tulane University	
B.S. 1941, New York University	D.C.	Brown, Fred Edward	Pa.
Brown, Robert Larry	D.C.	A.B. 1942, LL.B. 1947, The George Washington University	
Brown, Robert Lloyd	Tex.	Brown, John George	N.Y.
LL.B. 1944, University of Oklahoma		A.E. 1942, Tulane College	
Brown, William Theodore	IL	Brown, Charles Theodore T.	VA
B.S. 1944, University of Illinois		A.E. 1947, Cornell University	
Brown, Marvin	MI	Brown, David	N.Y.
Brown, Alvin	D.C.	B.S. 1944, United States Naval Academy	
Brown, Paul J.	N.Y.	LL.B. 1947, The George Washington University	
B.S. 1947, New York University		Brown, David Anthony	Tex.
Brown, James Crawford	D.C.	A.E. 1947, Texas Christian University	
LL.B. 1947, University of Georgia		Brown, James Riney, Jr.	Mich.
Brown, Francis Xavier	N.Y.	A.B. 1947, Michigan State College	
Brown, John William	D.C.	B.F.E. 1947, Cornell University	
A.E. 1947, Catholic University of America		Brown, William Walter, Jr.	N.Y.
Brown, Ruth Camper	D.C.	B.F.E. 1947, Cornell University	
B.S. 1943, The George Washington University		A.E. 1947, Tulane University	
Brown, Homer Lytle	IL	Brown, James John	VA
A.B. 1947, Wheaton College		Brown, John George	D.C.
Brown, David Carl	Calif.	B.S. 1947, Mount St. Mary's College	
Brown, John Francis Xavier	N.Y.		
A.B. 1947, A.M. 1947, The George Washington University			
Brown, Basil K. Howard	VA		
A.B. 1947, Union College			
Brown, John Roy	Calif.		
A.B. 1947, The George Washington University			
Brown, Raymond Gilbert	Calif.		
B.S. 1941, Low State College of Agriculture and Mechanical Arts			
Brown, Arnold Taylor	D.C.		
B.S. in E.E. 1946, The George Washington University			
Brown, Charles Egle	MI		
B.S. 1947, University of Maryland			
Brown, Frederick William	N.Y.		
B.S. 1948, United States Naval Academy			
Brown, Joseph Sanford	Kan.		
A.B. 1947, Stanford			
Brown, Robert, Jr.	N.C.		
B.S. in C.E. 1947, North Carolina State Teachers College			
Browning, James Bayliss	W.Va.		
B.S. in C.E. 1943, West Virginia University			



Campbell, Arthur Fred	D.C.	Christensen, Cullen Yates	Vt.
Campbell, Warren H.	Md.	Christie, Alford	Md.
A.B. 1921, University of Utah		A.B. 1920, LL.B. 1923, The George Washington University	
Campbell, William Rimmel	Ohio	Christopherson, Olat Warren	Mont.
Camp, Robert Clifford	Va.	A.B. 1927, The George Washington University	
B.S. 1911, 1912, Purdue University		Chubb, John Stephen	N.Y.
Campbell, Donald Alfred	Va.	A.B. 1948, The George Washington University	
Campbell, Fred W. Water	Md.	Ciceli, Arnold	D.C.
B.S. 1914, 1917, Rhode Island College of Education	D.C.	Clegg, Charles Thomas	Tex.
Campbell, Robert Maxwell, Jr.	N.J.	A.B. 1924, The George Washington University	
Campbell, Ross Lewis	Va.	Clark, Thomas Lewis	D.C.
B.S. 1926, Newark College of Engineering		A.B. 1927, The George Washington University	
Campbell, Stephen Jr.	Ohio	Clark, William	N.C.
A.B. 1914, Duke University		Clatterbaugh, Verne Gay, Jr.	Va.
Campbell, William Robert	Md.	A.B. 1922, West Virginia University	
B.S. 1917, University of Maryland		Cleaton, George Benjamin	Tex.
Cannon, Warren Hamlin	Md.	B.E.A. 1914, University of Texas	
A.B. 1922, The George Washington University		Clegg, William Halloran	Mont.
H.B. 1913, University of Utah		Clemens, Robert Reid	N.J.
Cannon, William Lewis	N.Y.	B.S. 1914, C.C.L. 1917, Tufts College	
Cannon, William Benson	Va.	Clemens, Edwin William	Vt.
B.S. 1914, University of Tennessee		B.E.E. 1917, Cornell University	
Carr, Guy Homer	D.C.	Clemon, Robert Bruce	Mich.
B.S. 1914, University of Texas		A.B. 1941, United States Military Academy	
Carr, John Edgar	D.C.	Clegg, Charles Stuart	Tenn.
Carr, Fred Augustus	D.C.	A.B. 1941, The George Washington University	
B.S. 1914, Massachusetts Institute of Technology		Clegg, Daniel George	D.C.
H.B. 1917, The George Washington University		B.S. 1919, University of Maryland	
Carr, Henry Martin	W.Va.	Clegg, Daniel Stuart	Vt.
B.S. 1914, Riverside College		B.C.E. 1917, College of the City of New York	
Carr, Stuart	N.Y.	Clegg, Joseph Robert	Conn.
B.S. 1914, College of the City of New York		Cole, Walter Lawrence	Md.
Carr, John Frederick		B.M.E. 1914, Stevens Institute of Technology	
Carr, James Lawrence	D.C.	Coleman, Carl Stangoramy	Tenn.
A.B. 1912, Randolph-Macon College	Va.	Coleman, Frank W. Wain III	D.C.
Carr, Vernon	Mich.	B.S. 1914, United States Military Academy	
A.B. 1911, Wayne University		Coller, William A. Jones	Mo.
Carr, Marie Louise	N.Y.	A.B. 1927, Washington College	
H.B. 1914, Lockport University		Coller, Charles Joseph	Mont.
Carrington, John Edward	Green	A.B. 1917, The George Washington University	
A.B. 1911, University of Oregon		Coller, George Everett	D.C.
Carrington, David H. Jr.	Pa.	Coller, John David	N.C.
A.B. 1911, University of Pennsylvania		A.B. 1914, Wake Forest College	
Carrington, Augustus Leonard	Ohio	Coller, Percy Henry, Jr.	Kan.
Carrington, George Martin	Va.	B.S. 1911, University of Kansas	
B.S. 1911, United States Naval Academy		Collins, James Henry	D.C.
Carrington, Lee F.	Pa.	Crompton, Ross Hamilton	Va.
B.S. 1912, Dickinson College		B.S. 1917, Massachusetts Institute of Technology	
Carrington, Arthur F.	D.C.	Crosby, Anne Marie	D.C.
B.S. 1913, Massachusetts Institute of Technology		A.B. 1918, Hunter College	
Carrington, Ernest	N.Y.	Crosby, Thomas Robert	Vt.
B.O.E. 1917, College of the City of New York		A.B. 1917, M.S. 1943, Syracuse University	
Carrington, Ernest Marshall	Md.	Cook, John William	Ill.
B.S. 1911, University of Virginia		Cook, Ross Christian	Pa.
Carrington, James George	N.Y.	B.S. 1914, Temple University	
Carrington, Norman Lee	D.C.	Cook, Walter McQueen	Ala.
A.B. 1913, Oberlin College			
Christensen, Ross	Mont.		
A.B. 1914, State University of Montana			





Duke, Allen August, Jr. B.S. 1947, Lehigh University	N.J.	Duff, Alfred James A.B. 1917, Pennsylvania State College	Pa.
Duke, Robert Pete Duke, Jack Lewis	Md. Pa.	Duke, Norman Edward A.B. 1934, L.L.B. 1935, University of Notre Dame	Va.
Duke, Edward Scott B.S. 1912, University of Illinois	D.C.	Dulaney, Benjamin Weenas A.B. 1943, University of Virginia	Va.
Dunham, John Henry A.B. 1941, Catholic University of America	Alaska	Dunn, Frank Bruce A.B. 1947, Washington University	Ill.
Dumas, Frank Earl Dumas, Rud. Paul	Wyo. Utah	Dunn, Francis G.E. L.L.B. 1937, University of South Dakota	Md. S.D.
Dumas, Thomas Wilson Dumas, William Joseph	Md. D.C.	Dunham, Alice Lantley A.B. 1913, Queens College	N.Y.
Dunlap, Leta Paul B.F.E. 1946, The George Washington University	D.C.	Dunham, Wm. L. Latta Dunham, Franklin Willoughby	Md. D.C.
Dunlap, Austin Phelps B.S. 1944, Massachusetts Institute of Technology	Md.	E	
Dunlap, John Parker A.B. 1940, Johns Hopkins University	Md.	Earle, John Howard B.S. 1943, Pennsylvania State College	D.C.
Dunlap, James A.B. 1939, College of the City of New York	Md.	Earle, William Kehr B.S. 1940, United States Coast Guard Academy	D.C.
Dunlap, Thomas Gerald B.S. 1943, Northwestern University	Ill.	Earnest, John Alvin B.S. 1913, Alabama Polytechnic Institute	Ala.
Dunlap, Kenneth William Dunlap, Henry Joseph, Jr.	Nebr. Va.	Edgerton, John D. Edgerton, Francis Livingston	D.C. Pa.
Dunlap, Mary Elizabeth B.S. 1942, University of Pittsburgh	Pa.	Edgerton, Elmer Edgerton, Samuel Wadhwa, Jr.	Wash. Va.
Dunlap, Benjamin Henry B.S.E. 1945, University of Pennsylvania	D.C.	Edgerton, Elmer and Henry College	
Dunlap, David Howard A.B. 1939, Pomona College	Calif.	Edwards, John Elliott A.B. 1933, Pomona University	Md.
Dunlap, James I. Rowe A.B. 1942, University of Maryland	Va.	Edger, Roscoe Lyne B.S. 1942, Indiana University	Md.
Dunlap, Frank Robert A.B. 1946, The George Washington University	D.C.	Earl, Paul Wesley A.B. 1946, University of California at Los Angeles	Calif.
Dunlap, George Ross, Jr. B.S. 1946, University of South Carolina	Va.	Earle, Herbert Herbert A.B. 1946, The George Washington University	D.C.
Dowell, Arthur Edward B.S. in F.E. 1941, Princeton University	D.C.	Edwards, Frank Joseph Edwards, Eugene Russell	D.C. N.Y.
Dowell, Earl Simon B.S. 1947, University of Illinois	Ill.	Earle, Ralph Earle, Jr. Ellert, William H. met, Jr.	N.Y. N.J.
Dowling, Leslie Burgess B.S. 1932, United States Military Academy	D.C.	Ellis, John Flatter A.B. 1945, The George Washington University	D.C.
Dowling, Harold Alfred Dowling, Richard Dale	Va. D.C.	Fly, Robert Barranda A.B. 1925, Emory and Henry College	Va.
Dowling, George Calvin B.S. in C.E. 1945, University of Alabama	D.C.	Ellis, John Flatter A.B. 1945, The George Washington University	D.C.
Drimmer, Saul E. B.S. 1940, The George Washington University	N.Y.	Ellis, John Flatter A.B. 1945, The George Washington University	D.C.
Dubiel, Joseph Michael B.S. 1938, University of New Hampshire	Va.	Ellis, John Flatter A.B. 1945, The George Washington University	D.C.
Dubois, Raymond Francis B.S. 1948, United States Naval Academy	Conn.	Ellis, John Flatter A.B. 1945, The George Washington University	D.C.
Dubois, Samuel Charles B.S. 1939, Washington College	Va.	Ellis, John Flatter A.B. 1945, The George Washington University	D.C.
Dubois, Samuel Charles B.S.E. 1949, Johns Hopkins University	Va.	Ellis, John Flatter A.B. 1945, The George Washington University	D.C.





Friedfeld, Stanley	N Y	Giles, Daniel Anthony	D.C.
A.P. 1941, Tufts University		B.S. 1941, August State College	
Friedman, Martin Leonard	N.J.	Gilman, Yale Weston	Kan.
A.B. 1932, Rutgers University		A.B. 1932, The George Washington University	
Freeman, Norman	N.Y.	Gilman, Frederick Stewart, Jr.	Fla.
B.M.E. 1945, College of the City of New York		B.S. 1945, H.B. 1947, University of Florida	
Fryer, Norman Eugene, Jr.	ME	Gilman, Roy Henry	D.C.
B.S. 1928, United States Naval Academy		B.S. 1927, University of Maryland	
Furlong, William Rex, Jr.	D.C.	Gilman, Frank Paul	Ill.
A.B. 1932, LL.B. 1935, Harvard University		B.S. 1932, M.F. 1934, Loyola College	
Furns, Howard Irvine	Va.	Gilman, Robert Andrew	Mo.
A.B. 1947, University of California at Los Angeles		Gilman, Everett Randall	I.C.
Futran, Janet	N.Y.	A.B. 1947, Wellesley University	
B.S. 1935, M.S. 1937, College of the City of New York		A.M. 1947, Johns Hopkins University	
G			
Gablesta, Mary Jane	N.H.	Graham, Norman M.	Me.
A.B. 1947, Wellesley College		B.S. 1947, University of Maryland	
Gale, L. E. Walter	Ky.	Graham, Robert Frederick	Id.
B.S. 1941, M.F. 1942, University of Kentucky		A.B. 1942, Indiana University	
Gale, Mary R. Hart	N.Y.	Graham, Robert	N.Y.
B.L.E. 1947, College of the City of New York		A.B. 1947, Hunter College	
Galloway, Louis Morris	D.C.	Graham, Robert Fred	D.C.
B.S. 1943, The George Washington University		Graham, James Andrew	Mass.
Galloway, William George	Tex.	A.B. 1947, College of William and Mary	
A.B. 1947, Houston Southern University		Graham, Robert Henry	N.Y.
Galy, Theodore Robert	Conn.	B.S. 1947, United States Military Academy	
B.S. 1947, Vassar College		Graham, Robert	D.C.
Gardner, Edith Rose	Va.	B.S.S. 1947, M.F. 1949, College of the City of New York	
A.B. 1947, University of California at Los Angeles		Gard, Robert L.	Ix.
Gardner, Sprague Edwin	D.C.	Gard, Charles David	Ix.
Gardner, Charles Frederick	Mass.	B.S. 1947, C.I. 1947, Purdue Univ.	
B.S. 1947, M.F. 1947, The George Washington University		Gardner, William Henry	S.C.
Gardner, Edwin Francis	Ind.	B.S. 1947, University of South Carolina	
Gargus, Clarence Wallace	Mass.	Gardner, Maurice Carroll	Tex.
Gargus, Edward Allen, Jr.	Me.	A.B. 1947, Texas Technological College	
B.S. 1947, The George Washington University		Gardner, Norman	D.C.
Garnett, C. Donald	Va.	A.B. 1947, Harvard University	
B.S. 1947, Franklin and Marshall College		Gardner, William Walter	Conn.
Garnett, Patricia Catherine	D.C.	Gardner, Francis Gordon, Jr.	Va.
A.P. 1947, College of New Rochelle		Gardner, Herman Stanley	D.C.
Gardner, John Vincent	D.C.	A.B. 1947, Johns Hopkins University	
A.P. 1942, Villanova College		Gardner, Howard J.	Me.
Garns, Arthur	Me.	Gardner, Alex Lawrence	D.C.
B.S. 1947, Drexel Institute of Technology		A.P. 1947, The George Washington University	
Gearhart, Ernest Theodore, Jr.	Va.	Gardner, Sylvia B.	D.C.
A.P. 1947, University of Richmond		A.B. 1947, Hunter College	
Gerber, Lawrence David	Me.	A.M. 1947, The George Washington University	
A.B. 1932, B.S. 1935, College of William and Mary		Gardner, William H. B.	D.C.
A.M. 1935, Ohio State University		Gardner, Robert Ashby	Tex.
German, Theodore Anthony	Conn.	Gardner, Paul Philip	N.Y.
German, George Francis	Conn.	A.B. 1947, Bowdoin College	
A.P. 1947, Harvard University		German, David Allen, Jr.	N.M.
Gerhardt, Robert Bernard	Ill.	B.P.A. 1947, University of Texas	
B.S. 1947, Northwestern University		Gerr, Louis William	Me.
Gibbs, Robert Raymond	D.C.	B.S. 1947, University of Missouri	N.J.
A.B. 1947, The George Washington University		B.S. 1947, Bucknell University	
Gibbs, Robert Raymond	D.C.	Gerr, Louis William	Tex.
		B.S. 1947, United States Naval Academy	



Graybeal, Iddy C.	Wash.	Haney, Richard W.	Idaho
B.S. 1944, College of Puget Sound		LL.B. 1947, The George Washington University	
Green, Thornton Francis	Me.	Hanover, Raymond Thomas	Mass.
B.S. 1945, University of Maryland		A.B. 1943, Dartmouth College	
Greenberg, Mack Kenneth	Mass.	Hansen, Henry L.	Va.
LL.B. 1947, Boston University		A.B. 1940, Washington University	
Greenberg, Nancy	Mass.	A.M. 1947, Harvard University	
B.S. 1946, Massachusetts State College		Hartman, Albert	N.Y.
Greenfield, George Albert	Idaho	A.B. 1946, Denison College	
A.B. 1946, College of Idaho		Haugen, Larry A.	Nebr.
Greer, Harold Thomas	I.C.	A.B. 1947, University of Nebraska	
Griffin, Eugene Everett	Tenn.	Hicks, William	Wis.
A.B. 1948, The George Washington University		A.B. 1944, Mount St. Mary College	
A.M. 1948, Columbia University		Hicks, Bruce Norman	Cal.
Griff, Edith	N.Y.	A.B. 1947, A.M. 1947, University of Chicago	
A.B. 1942, Brooklyn College		Hirsch, Robert Bruce	I.C.
Griff, Murray Morton	D.C.	B.S. 1944, University of Maryland	
A.B. 1946, College of the City of New York		Hipple, Lawrence Maxwell	Pa.
Griffey, William	N.J.	A.B. 1942, Pennsylvania State College	
B.S. & P.E. 1944, Rutgers University		Hipple, Robert Thomas	I.C.
Grice, John Rizzuti, Jr.	Va.	Harrison, Eugene Michael	Iowa
B.S. & C.E. 1944, Virginia Polytechnic Institute		A.B. 1944, State University of Iowa	
Griffin, Stephen	Nebr.	A.B. 1942, State University of Iowa	
Griffin, Ted	Va.	Hart, Charles Edward	Va.
A.B. LL.B. 1949, The George Washington University		B.S. 1944, University of Kentucky	
Guerra, Vernon Axel	Tex.	Hart, John Arnold	Ill.
Guernsey, Joseph Alexander	Ohio	B.S. 1946, University of Illinois	
A.B. 1947, LL.B. 1947, Western Reserve University		Hart, Leslie James	N.Y.
Gulley, Art M. George	N.Y.	A.B. 1942, Cornell University	
P.C.E. 1947, New York University		LL.E. 1947, LL.M. 1947, Cornell University	
Gulley, John H. Sanford	Ill.	Hess, Richard Carl	Iowa
Gutierrez, Oscar Robert	Me.	B.S. 1947, Low State College of Agriculture and Mechan. Arts	
A.P. 1942, University of Maryland		A.B. 1944, Wellesley College	Va.
		Hunter, Halley Rogers	Ill.
		A.B. 1947, The George Washington University	
		Hunter, John Thomas, Jr.	Va.
		A.B. 1946, University of Virginia	
		Hunt, Robert James	S.D.
		A.B. 1944, Yale University	
		Hunt, John Earl	N.M.
		A.B. 1947, University of New Mexico	
		Hutton, Gus Moore	Ill.
		Hutchins, Roy	Me.
		A.B. 1946, Harvard University	
		Hutton, Arthur Herbert, Jr.	Va.
		B.S. 1945, Central University	
		Hutton, Robert W.	Va.
		A.B. 1946, Columbia University	
		Hutton, Walter Carl	Ill.
		L.B. 1944, Yale University	
		Hughes, Raymond LeRoy	Ill.
		A.B. 1947, The George Washington University	
		Hughes, Alan Eric	N.Y.
		Hughes, Vernon Eugene	D.C.
		Hughes, Francis Buchanan	Me.
		Hughes, Sam L.	W.Va.
		A.B. 1942, Marshall College	
		Hughes, Walter Samuel	Ill.
		A.B. 1941, Colby University	
		Hughes, Charles William	Fla.
		B.S. & L.B. 1945, Georgia School of Technology	
		Humboldt, Susan Jane	Me.

Henry, William Merritt B.C.E. 1937, Rensselaer Polytechnic Institute			
Hernandez, Frank R. Earl A.P. 1945, The George Washington University			
Herrick, Harold Clinton, Jr. B.S. 1937, M.S. 1938, Washington University			
Herring, P. J. Hollister B.S. 1945, University of Maryland			
Hewes, Charles Lewis A.B. 1941, Yale University			
Hickson, Frank Victor B.S. 1941, Brooklyn Polytechnic Institute M.S. 1944, Texas College of Arts and Industries			
Hill, George Lincoln H. A.B. 1941, Wesleyan University			
Hill, George R. Hoot H. W. Hill, Jr. B.S. 1941, University of Virginia			
Hillman, Andrew Lewis, Jr. B.S. 1943, Massachusetts Institute of Technology			
Hillman, Jack Albert Hinsdale Charles Edwin A.B. 1939, University of North Carolina LL.B. 1942, The George Washington University			
Hirsch, Max Abraham B.S.S. 1938, M.S. 1940, College of the City of New York LL.B. 1947, The George Washington University			
Hirsch, Robert Isaac A.B. 1940, Oberlin College			
Hirsh, Quentin Edward B.S. 1945, University of Georgia M.S. 1947, John B. Stenson, University			
Hirsch, Raymond Lewis B.S. 1941, University of Maryland			
Hudson, Carl H. Hill Hudson, Ross B.C.E. 1917, College of the City of New York			
Hughes, Edward Eugene Ph.D. 1931, M.D. 1936, Yale University			
Hulbert, Olin James Hulsham, William Coffey A.B. 1947, The George Washington University			
Hunt, George Ray B.S. 1947, University of North Carolina			
Hunter, Frederick Stanley, Jr. B.S. 1946, University of North Carolina			
Hillman, Frank Tillie B.S. 1945, United States Naval Academy			
Hines, Ernest Shepperd, Jr. A.B. 1945, Princeton University			
Holmes, Meritt B.S. 1940, United States Naval Academy			
Holmes, Irving A.B. 1940, Brooklyn College			
Holtzfeld, Thomas Kenney A.B. 1941, Mississippi College			
Hodge, Eugene Abraham A.B. 1939, Cornell University LL.B. 1940, University of Michigan LL.M. 1947, National University			
Hoff, Charles Walter A.B. 1947, Colorado State College of Education			
Hopps, Frederick Walter A.B. 1944, Yale University			
Hops, Roger Charles Hoskins, Sanford LL.B. 1940, University of Maryland			
Hortens, Louis Ronald B.S. 1943, Northwestern University			
Horton, George Anthony, Jr. A.B. 1943, University of Pennsylvania			
Hartwig, Herbert David Hosking, Harold Hoskins, Ronald Engel B.S. 1939, Rural Technical College in Copenhagen			
Hosford, Robert Wright, Jr. B.S. 1943, The Citadel			
Hoskins, Julius Knux Hoskins, Charles E. Hosk, John G. B.S. 1943, United States Military Academy			
Hosford, Robert Hule, Jr. B.S. 1944, Syracuse University			
Huck, John Jefferson Hudson, Donald Walker A.B. 1947, Presbyterian College			
Hunt, Robert Carter Hunt, William L. Hunt, Clifford Edwin Hunt, Murray James A.B. 1942, Southwestern College A.M. 1946, The George Washington University			
Hunt, Louis Harry Huxter, Marshall Stephen B.S. 1938, University of North Carolina			
Harkett, Jack Wilber Hunt, Edward John A.B. 1945, The George Washington University			
Hutcheon, Helen Marie Hyer, William Fred B.S. 1947, Oklahoma Agricultural and Mechanical College			
I			
Imley, Carl Herbert A.B. 1946, Harvard University			
Interkante, Paul Frank A.B. 1946, The George Washington University			
Ism, Clifford Christian B.S. 1940, Kansas State College			

## J

Jackson, Blaine Carroll	Va	Kahn, Louis	Va
Jackson, Philip Grant	D.C.	AB 1946, The George Washington University	
LL.B. 1928, Boston College		Kaplan, Victor Francis	Ky
Jackson, Thomas Lester	D.C.	BS. in P.E. 1947, University of Kentucky	
Jacobs, Arthur Alfred	N.Y.	Kasson, Irving	N.Y.
BS. 1926, New York University		BBA 1938, College of the City of New York	
Jacobs, Morton C.	N.Y.	Katz, John Joseph	Pa.
BS. 1942, College of the City of New York		AB 1944, LaSalle College	
Jacobson, Gold Thomas	N.D.	Kaplan, Charles Theodore	D.C.
Jensen, Walter John	Wyo.	AB 1942, Yale University	
BS. 1947, Pennsylvania State College		Karson, John R.	Md.
Jerdette, Dale Leonard	Md.	AB 1942, Saint Vincent College	
Jeter, William Tyree	Calif.	Karl, Leonard Thomas	Md.
Jett, James Gordon	Md.	Katz, Irving	N.Y.
BS. 1942, State Teachers College, Towson, Md.		AB 1941, University of Missouri	
A.M. 1947, The George Washington University		Katz, Joseph P.	N.Y.
Joh, Milton Lockwood	Ala.	BBA 1947, College of the City of New York	
Jones, Charlotte Alberta	Mass.	Katz, Louis	D.C.
BBA 1948, University of Minnesota		Katz, William Joseph	Md.
Johson, David Lewis	S.D.	BS. 1946, United States Naval Academy	
BS. in C.E. 1947, Purdue University		Katz, James Fleming	Va.
Jones, Nathan Steele	D.C.	BS. 1945, University of Maryland	
Jones, Olin Butler	M.	Katz, Philip Ernest, Jr.	Tex.
AB 1941, Western Michigan College of Education		AB 1947, University of Texas	
Johson, Robert Earl	D.C.	Kelley, James Brian	V.
Johson, Walter Warren	Va.	AB 1948, University of Richmond	
BS. 1944, University of North Carolina		Kelley, John Roy	Va.
Jones, Charles Bryant, Jr.	D.C.	BS. in I.A. 1945, University of Richmond	
Jones, David Lloyd	Tex.	Kelley, James Joseph	Pa.
Jones, Jack Clayton	Calif.	BS. 1944, Medical Institute of Texas	
BS. in C.E. 1947, Oklahoma Agricultural and Mechanical College		Kelly, John Lee	Md.
Jones, Ralph Adams	Ill.	BS. 1947, Georgetown University	
AB 1948, Pennsylvania State College		Kelly, Stephen Joseph	D.C.
A.M. 1949, Ford College		LL.M. 1949, Ford University	
Jones, Thomas William	Ill.	Kelly, Edward William	Ind.
AP 1947, Western Reserve University		AB 1948, State University of Iowa	
Jones, David A.	D.C.	Kennedy, Lawrence R.	Calif.
Jones, David J.	D.C.	S.E.E. 1947, Ohio State University	
AP 1949, Virginia College		Kennedy, Joseph Edmund, Jr.	Va.
A.M. 1949, Loyd University		Kennedy, Eugene Joseph	N.J.
Jones, George Samuel	D.C.	AB 1946, St. Peter's College	
Jones, Robert Lee	Wyo.	Kennedy, Jack Leonard	Va.
AP 1947, The George Washington University		LL.E. 1941, University of Louisiana	
Jones, Robert Knight	Va.	Kerr, Arthur Paul	Va.
LL.E. 1946, University of Florida		BS. 1947, The George Washington University	
Jones, Carl Allen	Calif.	Kerr, Joseph August	Md.
M.S. 1947, University of New York		A.B. 1941, The George Washington University	
		Kerr, Martin Jr.	N.Y.
		AB 1941, New York University	
		LL.E. 1947, Southern University	
		Kerr, Joseph Martin, Jr.	Calif.
		AB 1947, Loyola College	
		Kerr, William W.	La.
		Kerr, William W.	Calif.
		AB 1948, The George Washington University	
		M.S. 1949, The George Washington University	
		Kerr, Kenneth Kline	Va.
		AB 1947, Loyola College	
		Kerr, William Joseph	Ill.
		BS. 1947, University of Illinois	

## K

Kahn, Louis	Va	Kerr, Kenneth Kline	Va
AB 1946, The George Washington University		AB 1947, Loyola College	
Kaiser, Stanley Martin	D.C.	Kerr, William Joseph	Ill.
Kaplan, Victor Francis	Ky	BS. 1947, University of Illinois	
BS. in P.E. 1947, University of Kentucky		Kerr, William W.	Calif.
Kasson, Irving	N.Y.	AB 1948, The George Washington University	
BBA 1938, College of the City of New York		M.S. 1949, The George Washington University	
Katz, John Joseph	Pa.	Kerr, Kenneth Kline	Va.
AB 1944, LaSalle College		AB 1947, Loyola College	
Kaplan, Charles Theodore	D.C.	Kerr, William Joseph	Ill.
AB 1942, Yale University		BS. 1947, University of Illinois	
Karson, John R.	Md.	Kerr, William W.	Calif.
AB 1942, Saint Vincent College		AB 1948, The George Washington University	
Karl, Leonard Thomas	Md.	M.S. 1949, The George Washington University	
Katz, Irving	N.Y.	Kerr, Kenneth Kline	Va.
AB 1941, University of Missouri		AB 1947, Loyola College	
Katz, Joseph P.	N.Y.	Kerr, William Joseph	Ill.
BBA 1947, College of the City of New York		BS. 1947, University of Illinois	
Katz, Louis	D.C.		
Katz, William Joseph	Md.		
BS. 1946, United States Naval Academy			
Katz, James Fleming	Va.		
BS. 1945, University of Maryland			
Katz, Philip Ernest, Jr.	Tex.		
AB 1947, University of Texas			
Kelley, James Brian	V.		
AB 1948, University of Richmond			
Kelley, John Roy	Va.		
BS. in I.A. 1945, University of Richmond			
Kelley, James Joseph	Pa.		
BS. 1944, Medical Institute of Texas			
Kelly, John Lee	Md.		
BS. 1947, Georgetown University			
Kelly, Stephen Joseph	D.C.		
LL.M. 1949, Ford University			
Kelly, Edward William	Ind.		
AB 1948, State University of Iowa			
Kennedy, Lawrence R.	Calif.		
S.E.E. 1947, Ohio State University			
Kennedy, Joseph Edmund, Jr.	Va.		
Kennedy, Eugene Joseph	N.J.		
AB 1946, St. Peter's College			
Kennedy, Jack Leonard	Va.		
LL.E. 1941, University of Louisiana			
Kerr, Arthur Paul	Va.		
BS. 1947, The George Washington University			
Kerr, Joseph August	Md.		
A.B. 1941, The George Washington University			
Kerr, Martin Jr.	N.Y.		
AB 1941, New York University			
LL.E. 1947, Southern University			
Kerr, Joseph Martin, Jr.	Calif.		
AB 1947, Loyola College			
Kerr, William W.	La.		
AB 1948, The George Washington University			
M.S. 1949, The George Washington University			
Kerr, Kenneth Kline	Va.		
AB 1947, Loyola College			
Kerr, William Joseph	Ill.		
BS. 1947, University of Illinois			









Mattias, William Lowrey	Tenn.	McLaddin, William Francis	Va.
B.S. in M.E., 1947, Duke University		A.B., 1928, Swarthmore College	
Matthews, Delbert Schaefer	Va.	McLaurin, Lillian Catherine	Miss.
B.S., 1947, The George Washington University		A.B., 1937; LL.B., 1939, Vanderbilt University	
Mattson, Helen Irene	D.C.	McMahan, Emerson Frances	Wis.
A.B., 1913, The George Washington University		A.B., 1945, Pennsylvania State College	
Matvey, John B. Masson	D.C.	McMahon, George M.	Utah
B.S. in E.E., 1944, Duquesne University		LL.B., 1946, The George Washington University	
Matus, Roy Lemar	C.M.I.	McManis, Bernard William	Pa.
Mayard, Eric Vogel	Puerto Rico	A.B., 1940, Missouri College and Teachers Seminary	
B.A., 1935, University of Puerto Rico		McMurry, John Horace	N.C.
McAtee, Frank Ed.	Va.	B.S., 1941, Presbyterian College	
A.B., 1945, The George Washington University		McNair, Martin Joseph, Jr.	N.Y.
McCabe, Thomas Robert	Conn.	A.B., 1947, Tufts College	
A.B., 1941, Brown University		McNeil, Gordon Lee, Jr.	D.C.
McCarty, Jack Neale	Va.	A.B., 1942, The George Washington University	
B.S., 1943, Virginia Polytechnic Institute		McPherson, Lynn Willis, Jr.	D.C.
McCartee, Mary Ellen	D.C.	McQuinn, Robert Keith	Iowa
A.B., 1947, Duke University		A.B., 1944, The George Washington University	
McCay, James Rufus	D.C.	McTigue, Charles Edward	N.Y.
A.B., 1947, University of Tennessee		B.S. in E.E., 1941, University of Virginia	
B.S., 1944, Wake Forest College		Meade, John Edgar	Ind.
MD, 1947, University of Louisville		A.B., 1938; LL.B., 1940, University of Notre Dame	
McCauley, Douglas Jerome	Ill.	Meekins, Arthur Victor	Ohio
A.B., 1948, College of Ind.		A.M., 1948, Ohio State University	
McCauley, Forest Lloyd	Mo.	Memphis, George	D.C.
McCauley, Ray Gary	D.C.	B.S. in M.E., 1941, Worcester Polytechnic Institute	
McCauley, Marie Ann	Pa.	Menck, Percy Eugene, Jr.	Va.
A.B., 1942, Johns College		Menck, Susan Henry	Pa.
McCann, William Clyde	W.Va.	Menck, Morris	N.Y.
A.B., 1941, West Virginia University		A.B., 1947, LL.B., 1949, Syracuse University	
McCann, William Eugene	D.C.	Menck, Paul Yates	Va.
A.B., 1941, The George Washington University		A.B., 1947, Brigham Young University	
McCann, Walter Holmes, Jr.	Ky.	Menk, Hans August Leo	D.C.
A.B., 1947, The George Washington University		A.B., 1944, College of Wooster	
McCann, John Percival	Ky.	Menning, John Ernest	Conn.
B.S. in E.E., 1947, University of Tennessee		B.S., 1944, Yale University	
McCanna, Ruel Charles	Mo.	Menon, Arden John	N.Y.
McCann, John Lee	Ind.	B.S., 1947, University of Arkansas	
McCann, Allen Milton	Kan.	Menon, Leonard Bernard	Tex.
A.B., 1948, LL.B., 1949, University of Kansas		Menon, Philip Lee	N.J.
McCann, Ida Corrine	Mo.	A.P., 1944, The George Washington University	
McCann, Charles Edwin	Ill.	Menon, Fred O. Peter	S.D.
B.S. in E.E., 1941, North Illinois State Teachers College		Menon, Madeline	Mo.
McCann, William	D.C.	Menon, Margaret Louise	
A.B., 1947, The George Washington University		Menon, John, Jr.	D.C.
McCann, Robert Allen	W.Va.	Menon, Richard	Mo.
McCann, Robert Lee	Okla.	Menon, Michael	Pa.
A.B., 1944, University of Oklahoma		Menon, Albert	D.C.
McCarty, William G.	D.C.	Menon, John, Jr.	Pa.
McKain, Vincent Russell	Mo.	Menon, Michael	Pa.
B.S., 1941, Southern Methodist University		Menon, Robert	N.Y.
McKain, William Elton	N.Y.	Menon, Michael	N.Y.
A.B., 1947, Johns Hopkins		Menon, Michael	Pa.
McKain, Robert	Ind.	Menon, William	D.C.
A.B., 1947, A.M., 1948, University of South Carolina		Menon, Albert	D.C.
McKain, William	Va.	Menon, Albert	D.C.
LL.B., 1947, The George Washington University		Menon, Albert	D.C.

Mitchell, John Barclay	Va.	Murray, William	N.Y.
A.B. 1908, Amherst College		A.E. 1907, College of the City of New York	
Mitchell, Joseph William	N.J.	J.D. 1906, New York University	
Mitchell, Charles Frederick	Mass.	Morgan, David Charles	S.C.
A.B. 1908, Wake Forest University		Morgan, Louis Franklin	Va.
Ph.D. 1910, Harvard University		Morgan, David Hays	Tex.
Mitchell, Edward Alexander, Jr.	D.C.	B.S. 1906, East Texas State Teachers College	
A.B. 1907, University of Virginia		Morris, Richard Chester	W.Va.
Mitchell, Gordon Day	Ms.	Morris, Everett Clark	Ind.
B.S. 1914, Johns Hopkins University		A.B. 1917, Harvard University	
Mitchell, Walter Aaron	N.Y.	Morris, Mary Maud	S.I.
B.S. 1908, College of the City of New York		A.B. 1918, University of South Florida	
Moe, Albert Frederick	Calif.	Morris, Arthur Merton	Ill.
B.S. 1928, University of California		B.S. 1917, University of Maryland	
Mohr, George Louis	D.C.		
B.S. 1909, Lake William Military Academy		New, Robert Arthur	Ms.
Mohr, William Jefferson	Tex.	New, Lewis	Utah
B.S. 1911, Agricultural College of Missouri		B.S. 1909, Utah State Agricultural College	
Mohr, Louis Marie	Ms.	Nettelbladt, Victor Samuel	Ind.
B.S. 1910, University of Maryland		A.B. 1917, Indiana University	
Mohr, Robert Joyce	Conn.	Newman, Lawrence Albert	Ms.
B.E. 1912, Yale University		R.F.F. 1911, New York University	
Moser, Charles Clarence, Jr.	D.C.	Newell, Eugene Cassin	Conn.
Moser, George Clinton, Jr.	Ms.	A.B. 1911, Yale University	
A.B. 1909, University of Maryland		Newell, Louis Irving	Ms.
Moss, Jesse Mount	Ark.	Newell, Louis Patrick	D.C.
Moss, Vincent Lytle, Jr.	Va.	New, Remy Sylvester, Jr.	D.C.
A.B. 1911, Military College		Newell, Louis Herman	Tx.
Moss, Walter Horatio	Va.	A.B. 1911, Fort George Washington University	
Moss, Louis Thomas	Conn.	Newberry, Arthur	D.C.
Moss, Donald Francis	Ms.	H.B. 1907, The George Washington University	
B.C.E. 1909, New York University		Newhouse, George Marvin	Va.
Moss, Albert Maurice	Fla.	Newman, Francis Thomas	W.Va.
B.S. 1908, University of Florida		A.P. 1907, The George Washington University	
A.B. 1912, Harvard University		Nichols, Louis N.	D.C.
H.B. 1913, Georgetown University		Nichols, M. J. Allen	Ms.
Moss, Eric Louis	D.C.	B.S. 1918, University of Maryland	
Moss, Paul James	D.C.	Nichols, Frank Henry	Va.
Moss, Frank Scott	Va.	A.B. 1919, University of Alabama	
A.B. 1910, University of Michigan		Nichols, Howard Clinton	Ms.
Moss, Gloria Franklin, Jr.	Va.	A.B. 1917, University of Kansas	
Moss, John Everett	Mass.	Nichols, Susan Frances	Utah
Moss, John Hamilton	Va.	A.B. 1906, University of Utah	
Moss, Walter Lee	Ms.	Newman, Frank Eugene	Ms.
Moss, William Rufus	W.Va.	A.B. 1917, Columbia College	
A.B. 1910, West Virginia University		Nichols, Ben Frank	Ill.
Moss, Joseph Lytle	Calif.	A.B. 1906, The George Washington University	
A.B. 1912, Stanford University		Nichols, Arthur Charles, Jr.	N.Y.
Moss, Robert	N.H.	B.S. 1910, Fairleigh Dickinson University	
A.B. 1911, University of New Hampshire		Nichols, William Robert	D.C.
Moss, William Heavner	N.J.	B.S. 1911, University of Illinois	
Moss, Martin White, Jr.	Orp.	Nichols, Robert Joseph	Wis.
Moss, Stuart S.	Ms.	B.S. 1907, University of Wisconsin	
B.S. 1908, College of the City of New York		Nichols, Nels	Neb.
Moss, John Shaw	Ill.	Nichols, William Lawrence	Ill.
B.S. 1906, Purdue University		M.S. 1914, Southern University	
Mott, Vincent Edgar	Va.	Nichols, Joseph William, Jr.	R.I.
B.S. 1901, University of Southern California		A.B. 1917, Yale University	
Mott, Francis Thomas, Jr.	D.C.	Nichols, Donald Richard	Calif.
A.P. Cal. Bowdoin University		B.S. 1911, University of California	
Mott, Alexander	D.C.		
B.S. 1909, United States Naval Academy			
Mott, Yale University	Pa.	O'Brien, Edward Day	Ind.
B.S. 1917, University of Southern		B.S. 1907, Iowa State College of Agriculture and Mechan. Arts	



O'Brien, William John	Mass.	Ph.D. 1947.	D.C.
B.S. 1942, Tatlis College			
Old, Robert Yasser	D.C.	A.B. 1941, Lafayette College	A.
Old, Harri M. M. M.	Pa.	Pascoe, Ralph Lillian	M.
A.B. 1947, Pennsylvania State College		Pear, Louis	
O'Leary, Daniel Patrick	Va.	B.S. 1947, University of Maryland	
O'Leary, Remond, Brookings, II	Md.	Pederson, Beverly Stocking	D.C.
A.B. 1947, Harvard University		A.B. 1941, Virginia College	
Oswald, Norman L. L. L.	D.C.	Peterson, John Thomas	A.
B.C.E. 1943, M.C.E. 1947, Rensselaer Polytechnic Institute		LL.B. 1947, University of Kansas	
O'Hara, Joseph Patrick	Miss.	LL.M. 1944, The George Washington University	
O'Hara, Edward Patrick	Va.	Peterson, Lillian Ruth	Comm.
A.B. 1947, University of Missouri		A.B. 1941, Georgetown College	
Oliver, William Palmer, Jr.	Mo.	LL.B. 1941, University of Connecticut	
A.B. 1947, University of Missouri		Peterson, Arthur A.	D.C.
Oliverson, John Benjamin	Va.	Peterson, Louis Maurice	M.
LL.B. 1941, LL.M. 1941, Georgetown University		Peterson, John M. M.	M.
B.S. 1947, American University		A.B. 1941, Georgetown College	
Ondrejka, Leo Paul Gerald	Sweden	M.P.A. 1947, Wayne University	
B.S. 1941, University of Stockholm		Pennell, Joseph E.	N.Y.
O'Neil, Mark Ann, McCann	Md.	Pennell, Lila	N.Y.
A.B. 1947, The George Washington University		Perry, Horace H.	Georgetown
O'Neil, Robert	Va.	B.S. 1947, Louisiana State University	
B.C.E. 1943, Rensselaer Polytechnic Institute		Perry, George Peter	D.C.
O'Neil, William Gay	D.C.	A.B. 1947, The George Washington University	
B.S. 1941, Southwest Missouri State Teachers College		Perry, Robert Charles	M.
O'Neil, M. J.	N.Y.	Perry, Thomas Albert	M.
B.S. 1941, College of the City of New York		Peterson, Stanley William	N.Y.
O'Neil, Tom P.	Pa.	A.B. 1947, The George Washington University	
A.B. 1941, The Catholic University of America		Peterson, Stuart Raynell	D.C.
Ostry, Herbert William	Mich.	B.S. 1941, Purdue University	
B.S. 1941, University of Michigan		Peterson, W. R.	Ind.
Otto, William E. E.	D.C.	B.S. 1941, Northwest Missouri State University	
		Peterson, Charles	D.C.
		A.B. 1947, Ohio University	
		Peterson, Frederick H.	N.Y.
		A.B. 1947, University of North Carolina	
		Peterson, Charles E. E.	Ind.
		B.S. 1941, Iowa State College	
		Peterson, John J.	D.C.
		Peterson, Anna Virginia	D.C.
		A.B. 1941, Ohio State University	
		Peterson, George A.	M.
		LL.B. 1941, University of Chicago	
		Peterson, J. A.	N.Y.
		B.S. 1941, Oregon State University	
		Peterson, Fredrick J.	D.C.
		B.S. 1947, University of Maryland	
		Peterson, Howard E.	D.C.
		A.B. 1947, LL.B. 1947, University of Maryland	
		Peterson, Louis A. L.	M.
		B.S. 1941, University of Maryland	
		Peterson, Thomas M.	D.C.
		A.B. 1947, The George Washington University	
		Peterson, Charles Frederick	Wis.
		A.B. 1941, University of Wisconsin	
		LL.B. 1947, The George Washington University	
		Peterson, George A.	Ind.
		A.B. 1947, The George Washington University	
		Peterson, Howard E.	K.
		P. S. in M.E. 1947, University of Kentucky	
Page, Helen Bell	M.		
Pagano, Max Lee	Ind.		
A.B. 1941, Cornell University			
Pagano, Louis George	D.C.		
Pagano, Frank George	M.		
Parker, O. B.	D.C.		
Parker, Robert Woodard	D.C.		
A.B. 1947, Georgetown College, Ky.			
Parker, William Lee	Tex.		
A.B. 1947, St. Mary's University of San Antonio			
Parker, Louis Henry	Orla.		
Parker, Louis J.	Va.		
Parker, William Earl	W.Va.		
A.B. 1947, West Virginia University			
Parker, William E.	D.C.		
A.B. 1947, The George Washington University			
Parker, James LeRoy	Va.		
B.S. 1941, Rose Polytechnic Institute			
Parkinson, Frank Harold	Pa.		
B.S. 1947, Temple University			
Parkinson, Arthur George	Va.		
A.B. 1947, York University			
Parker, Charles R. R.	Va.		
B.S. 1941, University of Tennessee			
Park, Joseph Maurice	Md.		
LL.B. 1947, Howard University			







Snyder, Henry Benson, Jr. B.S. 1941, United States Military Academy	D.C.	Snyder, Philip Henry B.S. 1941, Worcester Polytechnic Institute	Mass.
Sondley, Alfred Joseph A.B. 1941, Columbia University LL.B. 1946, The George Washington University	D.C.	Stone, Howard Loomis A.B. 1941, Bowdoin Green State University	Ohio
Sor, J. Aaron, John Soudier, Otto Gerhard Julius Soudier, Joseph Maurice A.B. 1948, Queens College Scheck, Louis, Samuel Sorenson, Albert Howard A.B. 1941, University of Idaho	Va. N.Y. N.Y. N.C. Wash.	Stearns, M.E. B.S. 1946, Illinois Institute of Technology Stearns, William Eugene A.B. 1947, Indiana University	Ohio Va.
Schneider, Homer James P.S. 1942, University of Wisconsin	D.C.	Stewart, Ronald Eugene A.B. 1941, University of North Carolina	Me.
Schuchter, Walter Henry B.S. 1941, Virginia Polytechnic Institute	N.J.	Stewart, Harold Bernard B.S. 1941, University of South Carolina	N.C.
Schuld, Leslie Harrison B.S. 1941, United States Naval Academy M.B.A. 1941, Harvard University	D.C.	Stewart, Elizabeth Wain A.B. 1947, Ohio University	W.Va.
Schultz, Edward Karl Schultz, David J. B.S. 1941, Brooklyn College Schultz, John, Herman Schwartz, Dorothy Louise A.B. 1942, The George Washington University	M.I. D.C. D.C. D.C.	Stewart, George Bernard B.S. 1941, Virginia Polytechnic Institute Stiglitz, Arthur B.S. 1947, College of the City of New York	Va. Calif.
Schwartz, Louis A.B. 1948, Brooklyn College	D.C.	Stinson, George Francis A.B. 1941, University of Maryland	D.C. Md.
Scott, David Allen A.B. 1948, Princeton University A.M. 1949, Columbia University	N.J.	Simpson, Kenneth Wayne Jr. B.S. 1941, University of Maryland	D.C. D.C.
Scott, Elmer Louis A.B. 1946, LL.B. 1946, University of Wyoming	Va.	Smith, Arthur R. A.B. 1941, The George Washington University	Va.
Scott, John Reed, Jr. B.S. 1941, University of Maryland	Md.	Smith, William Graham A.B. 1941, LL.B. 1946, University of Pennsylvania	Pa.
Seaman, Leslie Thomas Seidel, Arthur Henry B.S. 1942, College of the City of New York A.M. 1941, University of Michigan	N.Y. N.Y. N.Y.	Smoot, Lawrence Edward B.S. 1941, University of Oklahoma	Okla.
Seidenstricker, William Dillon A.B. 1942, University of Colorado	Col.	Skinner, David, Benjamin B.S. 1944, Pennsylvania State College	Va.
Seitz, Patricia Mary A.B. 1949, A.M. 1941, Marquette University	Wis.	Skinner, Ernest B. LL.B. 1942, Washington Municipal University of Tacoma	D.C.
Sennels, John Gibson Serrano, Raymond, Alex Serrano, James George	D.C. Wash. D.C.	Skinner, Henry Ross A.B. 1947, University of Wyoming	Wash.
Shadwin, Cyril Eugene Shaffer, Otto Thomas B.S. in Ed. 1946, Delta State Teachers College	D.C. D.C. D.C.	Slevin, William Victor Smith, Albert Harrison B.C.E. 1946, University of Virginia	Iowa D.C.
Sharp, David J. Sharp, Daniel DeWitt B.S. in E.E. 1949, Northeastern University	N.Y. Mass.	Smith, Dale Samuel A.B. 1947, The George Washington University	Mich.
Sharp, I.D. A.B. 1941, Fort Hays Kansas State College	Ore.	Smith, James Harrison B.S. 1945, California Institute of Technology	Ore.
Shaw, Bowen Wood B.S. 1941, University of Maryland	Md.	Smith, John, Raymond LL.B. 1943, The George Washington University	Utah
Sherrin, Plummer Maurice B.S. 1946, Wake Forest College	Md.	Smith, Jack Albert Smith, Jesse Bond, Jr. A.B. 1944, University of Virginia	N.M. D.C.
Sheskin, Jacob Shel, Irving H. Sheller, Albert B.C.E. 1947, College of the City of New York	D.C. Mass. N.Y.	Smith, Lawrence Stanley A.B. 1941, University of Florida	Fla.
		Smith, Leon Knicker Smith, Paul Henry	D.C. N.Y.



Smith, Richard Robert	Va	Stewart, Clark Berry	Ma
Smith, Thomas Warner	D.C.	Stewart, Jay A. and, Jr.	Ma
Smith, Vernon Williams	Va	Stewart, Jerome Louis	Pa
BS, 1912, University of Maryland		AB, 1915, West Virginia University	
Stanton, Joseph S. and	Calif.	Stewart, Howard Hutcheson	A.
AB, 1914, University of California		Stewart, Jerome Louis	Ma
St. Louis, Arthur Eugene	Va	AB, 1926, Williams College	
AB, 1917, Lewis State College		LL.B. 1923, National University	
Stanton, Lawrence Philip	N.Y.	Stewart, Robert Lee	A.
Stanton, Robert Oscar	Wash.	AB, 1911, University of Virginia	
Stanton, L. R., Jr.	Mass.	M.B.A. 1947, Harvard University	
St. Louis, Norman	N.Y.	Stewart, Robert West	Va
AB, 1947, Brooklyn College		AB, 1921, Cornell College	
Stanton, Paul	Mass.	AM, 1941, University of Chicago	
AB, 1947, The George Washington University		Ph.D. 1943, Harvard University	
Stark, Robert Walter	Pa	Stokely, Richard	Pa
BS, 1912, University of Pennsylvania		BS, 1911, College of the City of New York	
Stark, Thomas	N.C.	Stoller, William Warren, Jr.	Ma
AB, 1909, University of North Carolina		AB, 1913, Amherst College	
Starr, Elmer Thomas White	Ma	Stoss, Meredith, Newcomb, Jr.	N.J.
Starr, Louis	N.Y.	AB, 1916, Amherst College	
BS, 1911, The George Washington University		Stout, Robert Sidney	A.
Starr, Arthur Vincent		St. Louis, Robert	Va
BS, 1941, Carnegie Institute of Technology	D.C.	AB, 1909, The Citadel	
Starr, Paul R.	Ohio	Stow, William Peck	Ohio
BS, 1911, Kent State University		AB, 1917, Western Reserve University	
Stanton, Mary Cecelia	D.C.	Stow, William Stuart	Pa
AB, 1917, Ford College		BS, 1947, Mount St. Mary's College	
Stanton, Charles R.	D.C.	M.B.A. 1952, University of Pennsylvania	
BS, 1911, United States Naval Academy		Stuchlik, Hugo	N.Y.
Stout, John Robert	Va	AB, 1917, University of Rochester	
AB, 1911, College of William and Mary		Stuchlik, William Samuel	Va
M.B.A. 1937, New York University		AB, 1911, University of Wisconsin	
Stout, Robert Russell	Ohio	Stuchlik, Otto John	Pa
AB, 1911, University of Chicago		Stuchlik, Frank Herbert	Ma
AM, 1911, University State University		AB, 1914, The George Washington University	
Stuchlik, Palmer Sigfried	D.C.	Stuchlik, Edgar Lewis	Va
Stuchlik, John	D.C.	Stuchlik, Louis Edgar	Pa
AB, 1917, The George Washington University		BS, 1911, United States Court of Appeals	
Stuchlik, William Henry, Jr.	Va	Stuchlik, Charles	N.J.
BS, 1917, James M. Smith College		BS, 1911, College of the City of New York	
Stuchlik, Henry Milton	D.C.	Sutton, Charles Stuart	Pa
BS, 1911, University of Virginia		Sutton, Lewis H.	N.Y.
Stuchlik, Arthur Kenneth	Ma	Sutton, Henry George	Va
AB, 1911, Mount St. Mary's College		BS, 1911, American Military Institute	
BS, 1911, Tennessee State University	Ind.	Sutton, Robert E.	Wash.
MS, 1911, University of Tennessee		BS, 1911, College of Saint Francis	
AB, 1911, The George Washington University	Pa	Sutton, Roy Albert	Va
Stuchlik, Mary	N.Y.	Sutton, Henry Edgar	Ind.
BS, 1911, College of the City of New York		BS, 1911, United States Naval Academy	
Stuchlik, Robert E.	Mass.	Sweet, Raymond Fisher	Va
AB, 1911, Bowdoin College		AB, 1911, State College of Washington	
Stuchlik, William A., Jr.	Ma	Sutton, John Thomas, Jr.	N.Y.
AB, 1911, College of William and Mary		AB, 1911, Bowdoin College	
Stewart, Arthur Eugene	Mass.	Sutton, William Joseph	Ohio
BS, 1917, Western Tennessee College		AB, 1911, LL.B. 1912, University of Notre Dame	
			T
		Tait, Ross C. and	Ma
		Tamm, Morris	D.C.



Tarrant, William Theodore A.B. 1920, Stanford University A.M. 1922, Johns Hopkins College	D.C.	Triplett, Daniel Cleveland B.S. 1923, University of Maryland	D.C.
Taylor, Joseph Henry B.S. 1911, F. L. C., United States Naval Academy	D.C. R.I.	Triplett, Robert Samuel B.S. 1922, University of Kentucky A.M. 1924, University of Chicago	Ky.
Taylor, Frank Benjamin Taylor, Clayton Robert B.S.S. 1927, Georgetown University	D.C. D.C. D.C.	Tripp, Edward Emerson A.B. 1927, New Mexico College of Agriculture and Mechanical Arts	N.M.
Taylor, Edward Russell A.B. 1927, Lafayette College	D.C.	Trinity, John Thomas Day A.B. 1927, Loyola University	Ind.
Taylor, Henry Paul, Jr. Taylor, John William B.S. 1924, Indiana State Teachers College	D.C. Pa. Pa.	Trinity, Stephen B.S.S. 1924, College of the City of New York	N.Y.
Taylor, Thomas Hart B.S. 1924, United States Naval Academy	Ohio	Trinity, John Montgomery M.P.A. 1924, New York University	W.Va.
Taylor, William Barrett A.B. 1924, University of Tennessee	Ind.	Turk, David Lloyd Tutor, Christian William Jr. B.S. in M.E. 1927, Cornell University	Me. Ind.
Taylor, Morgan Leonard A.B. 1927, University of Maryland	Me.	Tutor, Everett Arnold A.B. 1927, The George Washington University	Ind.
Taylor, George Marshall A.B. 1927, The George Washington University	Me.	Tutor, George A.B. 1927, The George Washington University	D.C.
Taylor, Carl Richard A.B. 1928, Furman University	S.C.		U.
Taylor, David Victor A.B. 1928, The George Washington University	Pa.	Upham, James John Upham, John Lee B.S. 1927, University of Oklahoma	Ind. Okla.
Taylor, James Louis, Jr. Taylor, Royal Louis B.E.L. 1927, University of Louisville	Me. Ind.	Upham, Henry Mark Upham, John George A.B. 1928, Pennsylvania State College	N.C. N.C.
Thomas, Robert Howard Lee A.B. 1928, University of Hawaii	D.C.		V.
Thomas, William Henry Baldwin Thomas, Betty Ann A.B. 1928, The George Washington University	D.C. Va.	Vander, Camille Joseph, Jr. Vander, Edmund Milton Vander, Benjamin Anthony A.B. 1928, West Liberty State College	D.C. Ind. W.Va.
Thomas, Lucius Ford Thomas, Robert M. Miller Theophil, William James A.B. 1927, University of Missouri	Ind. D.C. Mo.	Vander, Albert William B.S. 1928, University of Virginia	Pa.
Thompson, Gerald Brooks, Jr. Thompson, David Wendell A.M.E. 1928, University of Virginia	Ind. Va. Va.	Vander, John Francis A.B. 1927, Virginia State College	Ind.
Thomson, Marion A.B. 1927, Bowdoin College	N.Y.	Vander, William Francis A.B. 1927, Pennsylvania State College	D.C.
Thomson, Paul Leonard B.S. 1928, M.S. 1929, Massachusetts Institute of Technology	D.C.	Vander, John Leslie, Jr. A.B. 1927, Connecticut College	D.C.
Thomson, Thomas N. Jr. B.S. in E.E. 1929, Massachusetts Institute of Technology	Mass.	Vander, Eugene Edward A.B. 1928, Indiana State Teachers College	Ind.
Thorn, Randolph Lee A.B. 1929, Columbia University	Me.	Vander, William Gustav Vander, John V. A.B. 1929, A.M. 1931, University of Chicago	Ind. Ind.
Thorn, Helen Waller A.P. 1929, Pennsylvania College for Women	Va.	Vander, John Andrew Doctorate of Law, 1927, University of Illinois	D.C.
Thorn, Carl Elizabeth A.B. 1929, Dege University Pennsylvania Bar Law B.A. 1929, Penn State University	S.C. Ind.	Vander, John Andrew A.B. 1929, Aurora University	D.C.
Thorn, Robert Arnold B.S. 1929, Harvard University	Mass.	Vander, Arthur B.S. 1929, P.M.E. 1930, College of the City of New York	N.Y.
Thorn, Ralph Thorn, Charles Monroe, Jr. A.B. 1931, LL.B. 1932, The George Washington University	D.C. D.C.	Vander, Anne Benjamin A.B. 1927, The George Washington University	Pa.
Thorn, Vincent D. Thorn, John Irving A.B. 1931, University of Illinois	Va. Va.	Vander, Michael Joseph Vander, John David Vander, Benjamin, Howard Joseph	N.J. N.Y. Ind.

W		
Wagman, The Late David A.B. 1932, A.M. 1935, Boston Un- iversity	Mass	
Wagner, Dale Brown	N.M.	
Wagner, Paul Howard	Mass	
Wagner, Walter A.B. 1935, University of Washington	Wash	
Walters, Lorne William, Jr. B.S. 1943, Temple University	D.C.	
Watts, James Franklin B.S. 1940, University of Illinois	D.C.	
Watts, Jane Frances A.B. 1947, Penbridge College	R.I.	
Watkins, Harold A.B. 1944, West China Union Un- iversity	China	
LL.B. 1946, Sao Chow University, Shanghai		
Ward, Thomas Joseph	D.C.	
Warner, Joan Carol B.S. 1942, Duquesne University	D.C.	
Warren, Leicester A.B. 1945, The George Washington University	D.C.	
Washington, Fadhing Lewis Washington, James William A.B. 1941, Lafayette College	D.C.	
Watkins, Warren Henry B.S. 1940, University of Maryland	D.C.	
Watson, Charles Roger, Jr. A.B. 1948, Princeton University	N.I.	
Wayland, Clarence Raymond	Va	
Wayner, Gilbert Earl A.B. 1947, Tenor Rayne College	N.C.	
Welch, Henry Graham B.S. 1948, University of North Carolina	N.C.	
Webb, Richard William Webster, Edna B.S. 1942, University of Maryland	Va	
Webster, John Mark B.S. 1942, University of Minnesota	D.C.	
LL.B. 1947, The George Washington University		
Webster, Wendell Harris A.B. 1940, University of Mississippi	N.Y.	
Wells, Sidney B.B.A. 1942, College of the City of New York	Va	
Wellman, Milton B.C.S. F. 1936, New York University	N.Y.	
Weller, Simon Louis A.B. 1944, Harvard University	D.C.	
M.S. in Ed. 1948, Boston Teachers College		
Wells, Carl Martin A.B. 1947, A.M. 1949, University of South Dakota	Iowa	
Wentz, Lucile Beat A.B. 1942, University of South Dakota	S.D.	
Werner, Seymour A.B. 1941, The George Washington University	N.Y.	
Westfall, Ted B. B.S. 1940, University of Oklahoma	Tex	
Weston, Glen Earl B.S. 1943, University of Maryland	Md	
Wetherbee, Portland Hovey	Md	
Werner, William Fawcett, Jr.	Va	
Wesley, Llewellyn Russell	Ill	
Wheeler, Arthur Adams	Mass	
Wheeler, Fred Wins Wheeler, Mary Stuart A.B. 1947, Wellesley College	D.C.	
Whitaker, Edward Stephen A.B. 1942, Kansas College Whitaker, John A. B.B.A. 1948, University of Minnesota	Tenn	
White, Harold Edward A.B. 1941, University of Utah	Va	
White, Ivan Albert White, Robert Lynn B.S. 1947, Marietta College	Nebr.	
White, Ruth Bessie A.B. 1945, University of Pennsyl- vania	D.C.	
Whitlock, Henry A.B. 1941, College of William and Mary	D.C.	
Whitlock, James Warren B.S. 1944, Wake Forest College	D.C.	
Whitwell, Sanford Mack, Jr. B.S. in M.F. 1944, Cornell Uni- versity	Pa	
Wicker, George Stanley A.B. 1942, Emory University	Ga	
Wier, Richard Austin B.B.A. 1943, University of Texas	Tex	
Wild, Paul Joseph A.B. 1948, Duke University	Iowa	
Wilcox, Elizabeth Ann Wilcox, Robert Bruce B.S. 1947, Newark College of Eng- ineering	D.C.	
Wilfong, Dorothy Elizabeth A.B. 1947, Swarthmore College	D.C.	
Williams, John Clayton Williams, Leonard John Williams, Mary Margarette Will, L. W. A.B. 1944, University of California at Los Angeles	N.D.	
LL.B. 1947, University of Southern California	D.C.	
Willis, Bob Lloyd Willis, Edward Clark B.S. 1945, University of Virginia	Tex	
Willis, Lila Natalie A.B. 1946, LL.B. 1949, Fordham University	N.Y.	
Willis, Paul Randolph Willis, Philip Harold B.S. in Ed. 1948, Illinois State Normal University	D.C.	
Willis, Virginia Claude Willis, William Abel Willis, William Clayton A.B. 1946, Allegheny College	D.C.	
Willits, Robert James A.B. 1948, Duke University	Ga	
Winchester, Henry McCandis, Jr. A.B. 1947, University of Delaware	Del	
Wise, Robert Claude B.S. 1946, United States Naval Academy	Va	
M.B.A. 1949, Harvard University		
Winters, John Lewis B.S. 1940, University College A.M. 1941, University of North Carolina	N.C.	
Winters, William Tatum B.S. in E.F. 1942, Agricultural and Mechanical College of Texas	Tex.	

Wilk, Ruden B.S. 1928, University of Maryland	Calif.	Weyer, James Jr. A.B. 1927, Princeton University	D.C.
Wilver, R. R. Nash A.B. 1941, Connecticut College	Conn.	Y Yarworth, William John	Me.
Wright, John D. A.B. 1949, Louisiana State University	Calif.	B.S. 1939, Tennessee State Teachers College, Pa.	
Wright, W. George A.B. 1947, University of Utah	N.H.	M.F.A. 1947, Pennsylvania State College	
Wright, W. George A.B. 1947, University of Utah	Pa.	Yates, Robert Mallory B.S. in M.E. 1949, New Mexico Col- lege of Agriculture and Mechanic Arts	N.M.
Wright, W. George A.B. 1947, University of North Carolina	Utah	Yates, Robert Mallory B.S. 1941, Iowa State College of Agriculture and Mechanic Arts	D.C.
Wright, W. George A.B. 1947, University of North Carolina	Conn.	Yelley, William Ross Jr. Young, Jack Monroe	Ky. Ohio
Wright, W. George A.B. 1947, University of North Carolina	N.Y.	B.S. in M.E. 1947, Case School of Applied Science	
Wright, W. George A.B. 1947, University of North Carolina	Me.	Young, James H. Thompson A.B. 1946, University of New Hamp- shire	Mass.
Wright, W. George A.B. 1947, University of North Carolina	Va.	Young, Maynard Frank Young, Clara Frank	W.Va. N.Y.
Wright, W. George A.B. 1947, University of North Carolina	Va.	A.E. 1947, N.M. 1948, University of Rochester	
Wright, W. George A.B. 1947, University of North Carolina	Okla.	Z Zard, Charles	
Wright, W. George A.B. 1947, University of North Carolina	D.C.	A.B. 1947, Temple University	Pa.
Wright, W. George A.B. 1947, University of North Carolina	Va.		
Wright, W. George A.B. 1947, University of North Carolina	Kans.		

# SUMMARIES OF REGISTRATION

SUMMER TERM 1947

FALL AND WINTER TERMS 1947-48

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

United States, Territories, and Possessions

Alabama	12	Nevada	3
Arizona	2	New Hampshire	6
Arkansas	8	New Jersey	28
California	23	New Mexico	1
Colorado	2	New York	120
Connecticut	28	North Carolina	25
Delaware	2	North Dakota	4
District of Columbia	372	Ohio	35
Florida	22	Oklahoma	17
Georgia	8	Oregon	7
Idaho	1	Pennsylvania	72
Illinois	3	Rhode Island	7
Indiana	9	South Carolina	7
Iowa	18	South Dakota	8
Kansas	14	Tennessee	12
Kentucky	13	Texas	30
Louisiana	2	Utah	10
Maine	7	Vermont	1
Maryland	138	Virginia	18
Massachusetts	30	Washington	5
Michigan	15	West Virginia	21
Minnesota	9	Wisconsin	10
Mississippi	11	Wyoming	4
Missouri	15	Alaska	1
Montana	8	Hawaii	1
Nebraska	5	Puerto Rico	2

## FOREIGN COUNTRIES

China	1	Guatemala	1
Denmark	1	Philippine Islands	1
Germany	1	Sweden	1

## GRADUATES OF COLLEGES REGISTERED IN THE LAW SCHOOL

Albany University	2	Albany University of	2
Albany University of	2	Albany University of	2
Albany University of	1	Albany University of	1
Albany University of	3	Barnard College	2
Albany University of	2	Baruch College	1
Albany University of	3	Baylor University	1
Albany University of	4	Baylor University of	1
Albany University of		Berea College	1



Birmingham Southern College	1	Florida, University of	5
Boston College	1	Florida Southern College	1
Boston College	2	Florida State College for Women	1
Boston University	3	Fordham University	4
Bowling Green State University	1	Fort Hays Kansas State College	2
Bowling Green Polytechnic Institute	2	Franklin and Marshall College	2
Brigham Young University	1	Furman University	1
Brooklyn College	14	George Washington University	135
Brown University	5	Georgetown University	8
Bucknell University	1	Georgia, University of	4
Butler University	1	Georgia School of Technology	3
California Institute of Technology	2	Georgia State College	1
California, University of	8	Georgetown College	1
California at Los Angeles, University of	6	Hamilton College	1
Carleton College	1	Hammon University	1
Carnegie Institute of Technology	5	Hardy-Simmons University	1
Care School of Applied Science	3	Harvard University	29
Catholic University of America	4	Hawaii, University of	2
Central State College	1	Hebrew College	1
Central State Teachers College, Wisc.	1	Howard Payne College	1
Cincinnati, University of	6	Howard College	3
Cincinnati, University of	3	Idaho, College of	2
Cleveland, The	2	Idaho, University of	3
Cornell University	2	Illinois, University of	15
Cory College	2	Illinois Institute of Technology	4
Culgate University	3	Illinois State Normal University	1
Colorado College	3	Illinois Wesleyan University	1
Colorado State College of Education	1	Indiana State Teachers College	1
Cornell University	9	Travis Harte	3
Cornell, University of	1	Indiana University	6
Cornell College	1	Iowa, State University of	1
Cornell Union	1	Iowa State College of Agriculture and Mechanical Arts	5
Corvallis University	12	John B. Storer University	1
Dartmouth College	7	John Brown University	1
Dartmouth College	2	John H. H. University	9
Delaware, University of	1	Kean College	1
Delta State Teachers College	1	Kean, University of	4
DePauw University	1	Kean City, University of	6
Detroit, University of	1	Kean State College	1
Detroit Institute of Technology	1	Kent State University	2
Dickinson College	1	Kentucky, University of	6
Duke University	1	Kean College	1
Duquesne University	2	Lafayette College	7
Duquesne University	12	Lafayette College	1
East Tennessee State Teachers College	1	Louisiana College	1
East Texas State Teachers College	1	Louisiana State University	1
Emory and Henry College	3	Louisiana State University at	4
Emory University	2	Louisiana University	2
		Louisiana College	1
		Manitowish University	1
		Marquette University	1

Marshall College	2	Oberlin College	3
Maryland, University of	49	Oberlin College	1
Maryville College	1	Ohio State University	7
Massachusetts Institute of Technology	1	Ohio University	2
Massachusetts State College	1	Ohio Wesleyan University	2
Mexico, National University of	1	Oklahoma, University of	10
Miami, University of	3	Oklahoma Agricultural and Mechanical College	3
Michigan, University of	1	Oregon, University of	3
Michigan College of Mining and Technology	11	Oregon State College	1
Michigan College	1	Penn. University of	1
Michigan College	1	Penn. State College	1
Minnesota, University of	1	Pennsylvania, University of	1
Mississippi, University of	6	Pennsylvania College for Women	1
Missouri, University of	2	Pennsylvania State College	15
Montana, State University of	2	Pennsylvania State Teachers College	2
Montana State College	1	Philippines, University of the	1
Moravian College and Theological Seminary	1	Pittsburg, University of	3
Morris Harvey College	1	Penn. College	1
Mount St. Mary College	3	Presbyterian College	2
National University	3	Purdue University	8
Nebraska, University of	1	Providence College	1
Nevada, University of	1	Puerto Rico, University of	2
Newark College of Education	1	Puerto Rico, College of	2
Newark College of Engineering	2	Purdue University	10
New Hampshire, University of	5	Queens College	2
New Mexico, University of	2	Railville College	2
New Mexico College of Agriculture and Mechanical Arts	2	Railville College	2
New Mexico Teachers University	1	Rhode Island College of Education	1
New Mexico State Teachers College	1	Rice Institute	1
New Rochelle College of	1	Richmond, University of	6
New York College of the City of	45	Railville College	1
New York State College for Teachers	1	Railville, University of	2
New York University	17	Railville Technical Institute	1
North Carolina, University of	15	Railville Technical College, Cape Fear	1
North Carolina State College of Agriculture and Engineering	1	Railville	1
North Carolina State Teachers College	2	Railville University	4
North Dakota, University of	4	St. Joseph's College	1
North Dakota State Teachers College	2	St. Lawrence University	1
Northeastern University	2	St. Mary's University of San Antonio	1
Northern Illinois State Teachers College	1	St. Vincent College	1
Northwest Missouri State Teachers College	2	San Francisco, University of	1
Northwestern University	2	Stanton, University of	2
Notre Dame, University of	4	Stanford State Teachers College	1
	5	Stanton College	1
		South Carolina, University of	9
		South Dakota, University of	6
		Southwest Missouri State Teachers College	1
		Southern California, University of	2
		Southern Methodist University	1

Southwest Missouri State Teachers College .....	1	Virginia, University of .....	20
Southwestern College .....	1	Virginia Military Institute .....	1
State Teachers College, Buffalo ..	1	Virginia Polytechnic Institute .....	10
State Teachers College, Towson, Md .....	1	Wake Forest College .....	4
State Teachers College, Watertown, Wis .....	1	Walden Municipal University of Tippecanoe .....	1
Stanford University .....	4	Washington, State College of .....	1
Stevens Institute of Technology ..	4	Washington, University of .....	2
Stockholm, Technical University of ..	2	Washington and Lee University ..	4
Sumner, Indiana University .....	1	Withington College .....	1
Swarthmore College .....	2	Washington University .....	4
Syracuse University .....	9	Wayne University .....	3
Temple University .....	7	Wellesley College .....	5
Tennessee, University of .....	7	Wesleyan University .....	5
Texas, Agricultural and Mechanical College of .....	3	West Liberty State College .....	1
Texas, University of .....	8	West Virginia University .....	10
Texas Christian University .....	1	Western College .....	1
Texas College of Arts and Industries .....	1	Western Maryland College .....	2
Texas Technical College .....	1	Western Michigan College of Education .....	1
Trinity College .....	3	Western Reserve University .....	4
Tufts College .....	5	Westminster College .....	1
Tulane University .....	1	Whitman College .....	1
Union College .....	1	Wichita, Municipal University of ..	2
United States Coast Guard Academy .....	4	William and Mary, College of .....	4
United States Military Academy ..	28	William College .....	1
United States Naval Academy ..	1	Wilson Teachers College .....	1
Utah, University of .....	9	Wisconsin, University of .....	8
Utah State Agricultural College ..	2	Wiscasset, College of .....	2
Vanderbilt University .....	1	Worcester Polytechnic Institute ..	5
Vassar College .....	1	Worthington, University of .....	1
Villanova College .....	4	Wyoming, University of .....	3
		Yale University .....	17
		Yankton College .....	1
		Number of college graduates .....	1,342
		Number of college represented .....	279

## SUMMARY OF REGISTRATION

1947-48

	Men	Women	Total
First year .....	820	85	975
Second year .....	447	49	496
Third year .....	284	30	314
Candidates for the Degree of Master of Law .....	9	5	93
Candidates for the Degree of Master of Comparative Law ..	4	2	4
Candidates for the Degree of Doctor of Jurisprudential Science ..	8	0	8
Unclassified .....	61	2	63
Total .....	1,784	169	1,953





## INDEX

- Academic status of the University, 5-6
- Administration, officers of, 4
- Admission, 15-17
- Advanced standing, 16-17
- Attendance, 2
- Bachelor of Laws, degree of, 16, 24-25
- Calendar of the School, 1948-49, vi
- Cancellation of students, 22
- Course numbers, explanation of, 29
- Courses of instruction, 27-35
- Dean's Council, 13
- Degrees, 24-26
  - Conferred, 1947-48, 36-40
  - In the *graduate* course, 25-26
  - In the *professional* course, 24-25
- Doctor of Juridical Science, degree of, 17, 26
- Emeritus professors, 9
- Employment, student, 23
- Examinations, 21
- Exclusion and probation for post school-  
arship, 21
- Faculty, 9-12
- Fees and financial regulations, 18-19
- Geographical distribution of students, 64
- Grades, 20-21
- Graduates of colleges registered in the  
School, 64-67
- Graduation, requirements, 24-26
- Health Administration, 23
- History of the University, 5
- Honors, 25
- Hours of instruction, 20
- Juris Doctor, degree of, 16, 25
- Juridical Science, degree of Doctor of,  
17, 26
- Law Review*, 14
- Library, 13
- Living accommodations, 22
- Loan funds, 20
- Master of Comparative Law, degree of,  
17, 26
- Master of Laws, degree of, 17, 25
- Order of the Coil, 15
- Placement Office, 22
- Prizes, 19-20
- Refund of tuition, 19
- Registration, 17
- Registrations in the School, number of,  
64
- Regulations, 20-22
- Residence halls, 22
- Residence requirements, 20, 24, 25, 26
- Right to drop students, 22
- Scholarship, 16, 17, 24, 25, 26
- Seminars, 19
- Student
  - Bar Association, 15
  - Fee, 18
  - Employment, 23
  - Life, 22-23
- Students registered, 1947-48, 41-63
- Summaries of registration, 64-67
- Trustees, Board of, 3
- Unclassified students, 17
- University:
  - Academic status, 5-6
  - Colleges, Schools, and Divisions, 5
  - History, 5
  - Location, 6
- Withdrawals and refunds, 19



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1948-49





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## CONTENTS

Calendar of the School of Medicine.....	vi
The Board of Trustees.....	1
Officers of Administration.....	2
Faculty and Staff of Instruction in Medicine.....	3
Assistants in Research and Instruction.....	20
Technical Assistants.....	21
Administrative Assistants.....	21
The School of Medicine.....	22
<b>Courses of Instruction.....</b>	<b>30</b>
Anatomy.....	37
Anesthesiology.....	38
Bacteriology, Hygiene, and Preventive Medicine.....	39
Biochemistry.....	41
Dermatology and Syphilology.....	42
Medicine.....	43
Military Science and Tactics.....	47
Neurology and Neurological Surgery.....	48
Obstetrics and Gynecology.....	50
Ophthalmology.....	52
Oto-rhino-laryngology.....	53
Pathology.....	54
Pediatrics.....	55
Pharmacology.....	57
Physical Medicine.....	58
Physiology.....	59
Psychiatry.....	61
Radiology.....	63
Surgery.....	64
Urology.....	67
Degrees Conferred, May 28, 1947.....	68
Students Registered, 1947-48.....	70
Summaries of Registration, 1947-48.....	75

# CALENDAR OF THE SCHOOL OF MEDICINE

1948-49

Date	Day	Occasion
<b>1948</b>		
Sept. 14 . . . . .	Tuesday . . . . .	Reexaminations
Sept. 16 and 17 . . . . .	Thursday and Friday . . . . .	Registration period for the academic year 1948-49
Sept. 20 . . . . .	Monday . . . . .	Academic year begins
Nov. 25-27 . . . . .	Thursday through Saturday . . . . .	Thanksgiving recess
Dec. 22-Jan. 1 . . . . .	Wednesday through Saturday . . . . .	Christmas recess
<b>1949</b>		
Jan. 20 . . . . .	Thursday . . . . .	Immigration Day Holiday
Jan. 21-29 . . . . .	Friday through Saturday . . . . .	Fall term examination period
Jan. 31 . . . . .	Monday . . . . .	Classes resume for the winter term
Feb. 22 . . . . .	Tuesday . . . . .	Winter Convocation Holiday
April 15 and 16 . . . . .	Friday and Saturday . . . . .	Easter recess
May 2 . . . . .	Monday . . . . .	Last day for applications for degrees to be conferred in June
May 19-27 . . . . .	Thursday through Friday . . . . .	Winter term examination period
May 29 . . . . .	Sunday . . . . .	Commencement Session
June 1 . . . . .	Wednesday . . . . .	Commencement



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- ROSEMARY IMBERT, A.B.  
*Technician in Medicine*
- CARROLL WIRT LAWRENCE  
*Technician in Bacteriology*
- CLARENCE WILBUR MILLER  
*Technician in Pathology*
- CAYETANO NAGAC, A.B.  
*Technician in Pathology*
- VIRGINIA SUTTON RINGNESS  
*Research Assistant in Obstetrics and Gynecology*
- ANN BROWNING SNODGRASS, A.B.  
*Technician in Neurology*
- ROLLAN SWANSON  
*Technician in Pharmacology*
- MARIA KADYSZ SZWARSBART  
*Technician in Anatomy*

#### ADMINISTRATIVE ASSISTANTS

- Catherine Breen, *Assistant to the Dean of the School of Medicine*
- Sally Brewster Jamieson, A.B., B.S. in L.S., *Assistant Librarian, Medical Library*
- Anne Schnepfe Russell, *Secretary*
- Shirley Thorne, *Secretary*
- Joyce Elizabeth Smith, *Secretary*

## THE SCHOOL OF MEDICINE

### THE FACULTY

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
Walter Andrew Bloedorn, A.M., M.D., *Dean of the School of Medicine*  
Thomas Martin Peery, A.B., M.D., *Director of Postgraduate Instruction*

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Joseph Hiram Roe, Ph.D., *Professor of Biochemistry*  
Walter Freeman, Ph.D., M.D., *Professor of Neurology*  
Walter Andrew Bloedorn, A.M., M.D., *Professor of Medicine*  
Errett Cyril Albritton, A.B., M.D., *Professor of Physiology*  
Roger Morrison Choisser, B.S., M.D., *Professor of Pathology*  
Winifred Overholser, A.B., M.D., Sc.D., *Professor of Psychiatry*  
Leland Wilbur Parr, Ph.D., *Professor of Bacteriology*  
Frederick A. Reuter, M.D., *Professor of Urology*  
Harry Ford Anderson, M.D., *Professor of Dermatology and Syphilology*  
Daniel Bruce Moffett, A.B., M.D., *Professor of Oto-rhino-laryngology*  
John Parks, M.S., M.D., *Professor of Obstetrics and Gynecology*  
Preston Alexander McLendon, B.S., M.D., *Professor of Pediatrics*  
Ernest Alfred Watson Sheppard, M.D., C.M., *Professor of Ophthalmology*  
Brian Blades, A.B., M.D., *Professor of Surgery*  
Paul Kenneth Smith, Ph.D., *Professor of Pharmacology*  
James Winston Watts, B.S., M.D., *Professor of Neurological Surgery*  
Warren Andrew, Ph.D., M.D., *Professor of Anatomy*  
Thomas McPherson Brown, A.B., M.D., *Professor of Medicine*  
Lloyd Harvey Mousel, M.S., M.D., *Professor of Anesthesiology*  
Chester Elwood Leese, Ph.D., *Professor of Physiology*  
Radiard Brown, M.D., *Clinical Professor of Obstetrics and Gynecology*  
Thomas Carlton Thompson, B.S., M.D., *Clinical Professor of Urology*  
Daniel LeRay Borden, A.M., M.D., *Clinical Professor of Surgery*  
Thomas Martin Peery, A.B., M.D., *Associate Professor of Pathology*  
Angus MacIvor Griffin, Ph.D., *Associate Professor of Bacteriology*  
Carleton Raymond Treadwell, Ph.D., *Associate Professor of Biochemistry*  
William Stanbro, M.D., *Associate Professor of Radiology*  
Charles Samuel Wise, B.S., M.D., *Associate Professor of Physical Medicine*  
William Staton Anderson, A.B., M.D., *Assistant Clinical Professor of Pediatrics*  
Leo Gregor Schmelzer, *Superintendent of the University Hospital*

COMMITTEES •

THE DEAN'S COUNCIL

Joseph Hiram Roe

Brian Blades

Winfred Overholser

COMMITTEE ON ADMINISTRATION OF THE UNIVERSITY HOSPITAL AND DISPENSARY

Walter Andrew Bloedorn, *Chairman*

John Parks

Thomas McPherson Brown

Brian Blades

Leo Gregor Schmelzer

COMMITTEE ON ADMISSIONS

Leland Wilbur Parr, *Chairman*

Thomas Martin Peery

COMMITTEE ON CURRICULUM

Thomas Martin Peery, *Chairman*

Leland Wilbur Parr

Thomas McPherson Brown

John Parks

Brian Blades

COMMITTEE ON GRADUATE STUDIES

Errett Cyril Albritton, *Chairman*

John Parks

Angus MacIvor Griffin

COMMITTEE ON LIBRARY

Chester Elwood Leese, *Chairman*

Harry Ford Anderson

Carleton Raymond Treadwell

COMMITTEE ON RESEARCH

Brian Blades, *Chairman*

Roger Morrison Choisser

Thomas McPherson Brown

Angus MacIvor Griffin

COMMITTEE ON SCHOLARSHIP

John Parks, *Chairman*

Joseph Hiram Roe

Leland Wilbur Parr

Warren Andrew

• The President of the University and the Dean of the School of Medicine are members ex officio of all committees.

## COMMITTEE ON INTERN AND RESIDENT TRAINING

Lloyd Harvey Mousel, *Chairman*

Thomas Martin Peery

John Parks

Brian Blades

Thomas McPherson Brown

Leo Gregor Schmelzer

## COMMITTEE ON HOSPITAL PRIVILEGES

Thomas McPherson Brown, *Chairman*

John Parks

Brian Blades

## ADVISORY COMMITTEE ON POSTGRADUATE INSTRUCTION

Thomas Martin Perry, *Chairman*

Walter Freeman

Winfred Overholser

John Parks

Ernest Alfred Watson Sheppard

Brian Blades

Thomas McPherson Brown

Harry Filmore Dowling

Lewis Kaigler Sweet

## GENERAL INFORMATION

## INTRODUCTORY

The School of Medicine of The George Washington University was opened in March 1825; of the medical schools now in existence in the United States, it is the eleventh in chronological order of founding. The University Hospital and Dispensary were established in 1898 and made a part of the organization of the School.

The School is a member of the Association of American Medical Colleges and is one of the medical colleges which have been designated continuously as "class A" by the American Medical Association. The degrees of the School of Medicine are recognized by all state examining boards.

## PLAN OF INSTRUCTION\*

Each year of the medical curriculum is divided into two terms of sixteen weeks each. The curriculum for the degree of Doctor of Medicine must begin with the fall term.

The salient features in the method of instruction are thorough laboratory training, demonstrations, and clinical teaching, with recitations and lectures to clarify the many problems presented. The clinical material in the various hospitals and out patient departments is utilized to the fullest extent for both clinical instruction and laboratory work.

## EQUIPMENT AND FACILITIES

*The George Washington University Hospital.*—The new hospital, with a capacity of 400 beds, was opened in 1948. This splendid new edifice,

\* See footnote on page 15 for change in plan of instruction, for the senior year.



which is one of the outstanding hospitals in the United States, was made possible through a grant from the Federal Works Administration. The building is completely furnished with the latest and most scientific apparatus and equipment. Funds for the furnishings and equipment were provided through the kindness and generosity of numerous interested citizens and friends of the University. Its purpose is to supplement existing hospital resources in the District of Columbia for the care of the sick and the injured; the education of physicians, nurses, and technicians; and the advancement of medical knowledge.

The hospital is staffed and controlled by the Faculty of the George Washington University School of Medicine and it provides excellent clinical material for the instruction of medical students. Virtually every specialty in the fields of medicine and surgery has assigned space and equipment in both the out-patient department and the bed-patient section of this modern institution.

*Medical School Building.*—The building housing the School of Medicine is a five-story structure with lecture rooms and classrooms, laboratories, and students' rooms.

*Laboratories.*—A four-story laboratory building is adjacent to the main medical building. The major laboratories are for anatomy, histology and embryology, bacteriology, hygiene and preventive medicine, biochemistry, pathology, pharmacology and physiology, and clinical microscopy. They are fully equipped to enable students to pursue adequately the laboratory courses and to acquire the technical skill necessary in modern clinical and investigative work.

*Medical Library.*—The Library contains a selected reference collection of more than 6,500 volumes, and provision is made to add to it the important new medical works. The principal medical periodicals are received regularly.

#### GOVERNMENT LIBRARIES AND MUSEUMS

The Library of the Surgeon General's Office of the United States Army is the most complete general medical library in the world. In addition to its great collections of medical works, all leading medical periodicals of the world are available. This Library, as well as the Library of Congress, the Public Library, and the many excellent libraries of the various government departments, is available to students and teachers through a service maintained by the Medical School Library.

The Army Medical Museum affords opportunity for studying the conditions met in military and general medicine and surgery. Its collection of anatomical and pathological specimens is unequalled by any other museum in this country. The Museum of Hygiene, the National Mu-

seum, the Smithsonian Institution, the Botanic Gardens and the Department of Agriculture all afford opportunities for study in Medicine and its allied sciences.

#### CLINICS

The city of Washington, with about a million inhabitants, provides ample clinical material. The University Hospital and Dispensary furnish clinical facilities and a large proportion of the materials studied in the courses in pathology and clinical pathology.

*The University Hospital.*—All clinics are under the supervision of the Dean, who is also Medical Director of the Hospital. This insures the highest possible utilization of available clinical material for teaching purposes and the proper supervision of clinicians and students; it brings the individual student into direct contact with patients and requires him to do, under authoritative supervision, the clinical and laboratory work necessary for diagnosis and treatment; and it permits proper interpretation of the conditions occurring during the progress of cases and promotes the keeping of adequate records. Clinical and clinico-pathological conferences are held in which the history of cases, the physical findings, laboratory records, and the post-mortem pathology when available, are presented and correlated.

*The University Dispensary.*—The Dispensary has a large out-patient service in all departments, to which several thousand visits are made annually. Fourth-year students are assigned in rotation by sections for clinical instruction in the Dispensary.

*Gallinger Municipal Hospital.*—Clinical instruction is available in all branches of medicine. A great wealth of clinical material is afforded in this hospital by ordinance of the municipal authorities of the District of Columbia, whereby patients are assigned for treatment and clinical teaching to members of the Faculty of this School, nominated by this University. Third-year students serve their clinical clerkships at this institution.

*Childrens Hospital.*—Clinical instruction in pediatrics, dermatology, and orthopedic surgery.

*Emergency Hospital and Central Dispensary.*—Clinical instruction in medicine, surgery, and the specialties.

*Garfield Memorial Hospital.*—Clinical instruction in gynecology and obstetrics in the out-patient department, on the wards, and in the operating room.

*St. Elizabeths Hospital.*—Clinical instruction in mental and nervous diseases, medicine, post-mortem work, and gross pathology. This hospital with 7,320 beds, is maintained by the United States Government. The psychiatric clinic is one of the largest in the world.

*Episcopal Eye, Ear and Throat Hospital.*—Clinical instruction in ophthalmology, otology, rhinology, and laryngology.

*Mt. Alto Hospital.*—Clinical instruction in medicine and surgery is available and fourth year students are assigned in rotation by sections for clinical clerkships.

*Walter Reed General Hospital.*—Clinical instruction is available in all branches of medicine and surgery. Fourth-year students are assigned in rotation by sections for clinical instruction.

*Warwick Clinic.*—The facilities of the Cancer Detection Clinic are available to medical students. In addition the diagnosis and treatment of various forms of neoplasms are presented. The results of the treatment of neoplasms are evaluated by follow-up studies.

#### ADMISSION

Ninety hours of credit applicable toward a degree in this University or another college of liberal arts and sciences are required for admission to the School of Medicine.

A credit hour represents one class hour or a minimum of two laboratory hours a week for a period of one term of approximately fifteen weeks.

#### SPECIFIC EDUCATIONAL REQUIREMENTS

##### Secondary School Requirements

Of the fifteen secondary school units required, three must be in English, two in one foreign language (ancient or modern), one in algebra, one in geometry, one in history, and one in science (botany, chemistry, physics, or zoology). Eleven of the units offered must be in English, foreign language, mathematics, science, and history.

##### Premedical College Requirements

#### NINETY CREDIT HOURS

1. Chemistry, sixteen credit hours as follows: (a) eight credit hours in general inorganic chemistry of which at least four credit hours are laboratory work (qualitative analysis may be counted as general inorganic chemistry); (b) eight credit hours or a one-year college course of organic chemistry, including laboratory work.

2. Physics, eight credit hours, of which at least two credit hours are laboratory work. It is recommended that this course be preceded by one in trigonometry.

3. Biology, eight credit hours, of which at least four credit hours are laboratory work. This requirement may be satisfied by a course of eight credit hours in either general biology or zoology, or by four credit hours each in zoology and botany, but not by botany alone.



4. English composition and literature, six credit hours: the usual introductory college course or the equivalent. The student should develop facility in speaking and writing English.

5. Modern foreign language: a reading knowledge, preferably of French or German.

6. Electives. It is recommended that the remaining credit hours required include: (a) comparative vertebrate anatomy; (b) qualitative and quantitative chemical analysis; (c) social science and psychology.

#### ADVANCED STANDING

A student who has satisfactorily attended one or two years at any other "class A" medical school, and who has the necessary preliminary educational requirements, may be admitted to advanced standing.

#### APPLICATION FOR ADMISSION

1. Full directions for application will be furnished on request. The applicant should ask the registrar of each college previously attended to send an official transcript of record to the Director of Admissions, The George Washington University. Photostatic copies of credentials without the original signature of the certifying authority are not satisfactory.

2. A recent photograph, with signature, is required of each applicant.

3. As the number of qualified applicants for admission to the School each year far exceeds its capacity, the candidate for admission should secure from the colleges attended completely compiled premedical credentials and send them for evaluation well in advance of the term for which he is applying.

4. A fee of \$3 to defray the costs of completing the records for final consideration for admission must accompany each application.

#### REGISTRATION AND ADMISSION TO CLASSES

Registration in the School of Medicine is for a period of one academic year. After the student has entered the courses of instruction he is obligated for the full tuition for the academic year. No part of the tuition will be refunded upon withdrawal or dismissal for any cause. Acceptance by the School of a student's fees does not in any way obligate the School to accept the student for any subsequent year, and the right is reserved to drop any student from the School whenever, in the interest of the student or the School, the Faculty deems it advisable to do so.

#### FEES AND FINANCIAL REGULATIONS

The following fees have been adopted:

Tuition fee, for each academic year...	\$60.00
Fee for medical examinations, for each subject...	5.00
Graduation fee...	2.00



#### PAYMENT OF FEES

Fees for each term are \$300, payable in advance.

All fees are payable at the Office of the Cashier of the University, 725 Twenty-first Street NW. Fees due must be paid at the time of registration; no student is permitted to complete registration or to attend classes until fees are paid.

On account of the many applications for admission, and as the size of each class is limited, places can be reserved only for those qualified applicants who remit a deposit of \$100 which will be credited toward the tuition of the first term. Should unusual circumstances arise whereby the matriculant is unable to attend, this initial payment, less a charge of \$50 for registration, transfer, etc., will be returned up to one month before the opening of the session.

Students will be required to pay for injury to apparatus and other University property. All breakage and loss not directly traceable to an individual student are assessed pro rata. Each student is required, at the completion of laboratory courses, to replace or pay for all articles of equipment which he has lost, broken, or destroyed. Credit for work will not be given until this is done.

#### COST OF TEXTBOOKS AND STUDENT EQUIPMENT

The minimum cost of necessary textbooks and student equipment (microscopic, drawing materials, glass slides, clinical thermometer, stethoscope, nemocytometer, etc.) is approximately as follows: first year, \$150; second year, \$150; third year, \$100; fourth year, \$100; total \$700.

A fee of \$1 a term is charged for the use (optional) of a locker.

#### LOAN FUNDS

For information concerning loan funds consult the Chairman of the Committee on Student Loans and Scholarships, The George Washington University.

#### LIVING ACCOMMODATIONS

*Women Students.*—Women students under twenty-one years of age who are enrolled for twelve or more credit hours of academic work in the University must have their residences approved by the Director of Activities for Women before their registrations can be completed. In the women's residence halls, single rooms with breakfast and dinner are \$60 and \$65 a month; double rooms, with the same service, are \$53 and \$58 a month a person. Applications for rooms should be made well in advance. Forms for application, together with detailed information, may be obtained from the Director of Activities for Women.

*Men Students.*—A limited number of single and double rooms are provided for men students in temporary dormitories. Residence is re-

stricted to veterans of World War II who are enrolled for a minimum of twelve credit hours of academic work in the University. Vacancies will be filled from the list of applicants in accordance with the date of application. Single rooms are \$17 a month; double rooms are \$13 a month a person. Forms for applications for room reservation may be obtained from the Director of Activities for Men.

#### REGULATIONS

*Students in the School of Medicine are subject to, and are expected to familiarize themselves with, the general University regulations stated in the University Catalogue.*

#### ABSENCE

Absence is not allowed unless an excuse is obtained from the Dean or the instructor.

Absence consists in being away from a class or clinic during a scheduled period, entering after the class or clinic has begun, or leaving before either is dismissed.

Excuse for absence due to sickness must be accompanied by a certificate signed by the attending physician and must be filed in the Office of the Dean.

For every unexcused absence a department will deduct one-half of one per cent from the student's final grade in the subject involved.

#### GRADES

The following grading system is used: *A* (90-100); *B* (80-89); *C* (75-79); *D* (65-74) condition; *E* (below 64) failure; *Inc.*, incomplete. The passing grade in each subject is *C*.

A student who is conditioned in any subject will not be advanced until such condition is removed and then only by authority of the Committee on Scholarship. All conditions must be removed at the next make-up examination period provided for this purpose.

#### EXAMINATIONS

Examinations, which may be written, oral, or practical, will be held at the end of each term.

A student who fails to appear at a regularly scheduled final examination will not be examined until the next regular examination, except by special permission of the Committee on Scholarship. For make-up examinations to remove conditions, a fee of \$5 will be charged for each subject.

All students in the School of Medicine are required to take Part I and Part II of the National Board Examinations, except that students from those states and foreign countries which do not recognize the National Board may be exempted from Part II by action of the Committee on Scholarship.

## SPECIAL UNDERGRADUATE AND GRADUATE ADVANTAGES

### HEALTH ADMINISTRATION

Students are entitled to the health services hereinatteeer described. Through reports from the students and University officials, the University attempts to keep informed as to all cases of illness among its students. This service is primarily diagnostic in its intent. It also provides first aid in the event of an emergency.

Medical privileges include: (1) the physical examination of all entering students; (2) three visits by the University physician or surgeon, office or residence (District of Columbia) in any one illness, exclusive of a specialist, surgical operation, laboratory, or X-ray examination; (3) hospitalization, including board, medicine, and nursing in the University Hospital for not more than two weeks during an academic year—the necessity to be determined by the Director of Health Administration. The duration of hospitalization period (maximum, two weeks) is also to be determined by the Director of Health Administration.

This medical benefit does not apply to illness or disability incurred previous to the University term or prior to payment of the University registration fee.

Students are allowed, if they so desire, to engage physicians and nurses of their own choice, but when they do so they will be responsible for the fees charged.

Rules: (1) The Director of Health Administration is empowered to limit or deny the medical benefits where, in his discretion, a student has, by his misconduct or breach of the rules of the University, made himself ineligible; (2) the Director of Health Administration has authority to determine the necessity and length of hospitalization; (3) students who have severed their connection with the University are ineligible for medical benefits.

### PHYSICAL EXAMINATIONS \*

All first-year students are given a comprehensive physical examination by the Department of Health Administration upon admission to the School of Medicine. The students are informed of the findings and advised regarding such measures as will tend to maintain a high standard of health.

In addition medical students benefit from the complete Tuberculosis Case Finding Program which the School has maintained since 1938-39. Under this program all students receive tuberculin tests, X-ray examinations, and such special attention from chest specialists as is necessary to reduce to a minimum the dangers from tuberculosis to which medical

\* A charge of \$2 is made if a student fails to appear for a physical examination during the period set for this purpose.



students are believed to be subject. Students are immunized against those diseases for which proven prophylactics exist.

#### AWARDS AND HONOR SOCIETIES

*John Ordronaux Prize.*—This prize of \$70 is awarded annually to the member of the graduating class of the School of Medicine who has completed the four-year medical course with the highest scholastic standing.

*William Beaumont Medical Society.*—Medical students showing unusual ability are elected by the active members of this society, which was founded to encourage and stimulate individual investigation.

*Kane King Obstetrical Society.*—The fifteen students in the third and fourth year classes who maintain the highest grades in their work in obstetrics are eligible for membership.

*Smith-Reed-Russell Society.*—Students of the third and fourth years who maintain a scholastic average of 80 per cent are eligible for associate membership.

#### RESERVE OFFICERS' TRAINING CORPS, U. S. ARMY, MEDICAL UNIT

A Medical Unit of the Reserve Officers' Training Corps is established in this School by authority of the Secretary of the Army, and an officer of the Medical Corps of the Army is detailed to the University for supervision and instruction of the unit.

The instruction is divided into two two-year courses, the basic and the advanced. Each course consists of 90 hours a year—58 hours of prescribed medical instruction given by the Medical School and 32 hours of military medical instruction. Students who satisfactorily complete the basic course may, up to the quota allowed by the Department of the Army, enter the advanced course. Students in the advanced course receive, from the Government, a stipend of approximately \$700.

Students in the advanced course are required to complete the course and to attend a summer training period of six weeks.

A student who successfully completes the course is recommended for a commission in the Medical Corps Reserve, if he desires appointment. It is the policy of the Department of the Army to give preference to graduates of this course in the selection for Army internship.

#### MEMBERSHIP IN THE UNIT

Membership in the Unit, which is voluntary, is open to any physically fit male student who is a citizen of the United States and who is, at the time of enrollment, within the following specified age limits: under 26 years of age for the basic course, under 29 for the advanced course. For veterans of World War II, there is no age limit until January 1,



1950, for the basic course; until January 1, 1952, for the advanced course. Veterans with a minimum of six months' service receive credit for the first year of the basic course; those with a minimum of twelve months' service receive credit for both years of the basic course.

#### COMMISSION ON LICENSURE, DISTRICT OF COLUMBIA

Graduates who wish to take the examinations of the Commission on Licensure, District of Columbia, or desire to use the District license for reciprocity with the states, should apply to the Secretary, Commission on Licensure, Healing Arts Practice Act, District Building, Washington 1, D. C.

#### DEPARTMENTS OF INSTRUCTION

The work of the School is organized under the following departments: Anatomy; Anesthesiology; Bacteriology, Hygiene, and Preventive Medicine; Biochemistry; Dermatology and Syphilology; Medicine; Military Science and Tactics; Neurology and Neurological Surgery; Obstetrics and Gynecology; Ophthalmology; Oto-rhino-laryngology; Pathology; Pediatrics; Pharmacology; Physical Medicine; Physiology; Psychiatry; Radiology; Surgery; and Urology.

#### CLINICS

Courses of clinical instruction are included in the announcements of the clinical departments. The Dean prepares schedules of clinics and of student section assignments to the various hospitals and dispensaries.

#### THE DEGREE OF DOCTOR OF MEDICINE

Upon the satisfactory completion of the requirements of the School of Medicine, the degree of Doctor of Medicine is conferred.

#### REQUIREMENTS FOR THE DEGREE

Every candidate for graduation with the degree of Doctor of Medicine must be at least twenty-one years of age, of reputable character, and free of all indebtedness to the University. He must have satisfied the admission requirements, completed satisfactorily not less than four academic years of study as a matriculated student in Medicine, completed all required courses, and passed satisfactorily all prescribed examinations.

#### COMBINED ARTS AND MEDICINE CURRICULUM

In order to be recommended for the degree of Bachelor of Arts, the candidate must complete at least ninety credit hours of prescribed college work (at least thirty credit hours and one year of residence must be completed in Columbian College, the senior liberal arts college), and the

first year of the medical curriculum. Upon satisfactory completion of the fourth year of the medical curriculum the student becomes eligible for the degree of Doctor of Medicine.

#### HONORS

A candidate who has completed the four-year medical course with an average grade of *A* may be recommended for graduation "with distinction".

### GRADUATE AND POSTGRADUATE OPPORTUNITIES

#### POSTGRADUATE INSTRUCTION

The School of Medicine offers annually a series of short intensive postgraduate courses, varying somewhat from year to year. The series is designed for physicians in practice. The significant advances in the various specialties are presented, together with summaries of older information. A distinguished Guest Faculty supplements the Staff of the Medical School.

The Kellogg Medical Lectures, inaugurated in 1948, are a series of evening lectures and clinics, designed primarily for physicians practicing in Washington and vicinity. They are also attended by the Faculty, postgraduate students, and members of the senior class of the School of Medicine.

During the academic year 1947-48, more than 700 physicians were enrolled in postgraduate courses.

#### INTERN AND RESIDENT TRAINING PROGRAM

The George Washington University offers twenty internships which are divided into two categories of ten straight medical and ten straight surgical. All interns, regardless of the Service to which they are assigned, will be given a period of training in obstetrics and gynecology.

Accredited resident training will be offered in Medicine, Anesthesiology, Pathology, Neurology.

### TECHNICIAN TRAINING COURSES

#### ORTHOPTIC TECHNICIAN TRAINING COURSE

A six-month course, of 675 hours of clinical and classroom work, is offered for the training of orthoptic technicians by the Department of Ophthalmology.

#### MEDICAL TECHNOLOGISTS COURSE

The course for medical technologists consists of twelve consecutive months of didactic and practical work in all phases of clinical laboratory

technique. The course meets the full requirements of the Registry of Medical Technologists and the American Society of Clinical Pathologists. Prerequisite: Biology, twelve credit hours of which at least six must be Zoology. The other six may be elected from: Histology, Embryology, Anatomy, Physiology, Parasitology, and Bacteriology. Chemistry: General Inorganic Chemistry, eight credit hours of which at least four credit hours must be laboratory work. Quantitative Analysis: at least four credit hours with not less than one credit hour of laboratory work. (Organic Chemistry may be substituted for Quantitative Analysis, for the present.) Electives: sufficient to give a total of 60 hours of college credit. The following courses are highly recommended but they are not required: Physics, Biochemistry, Advanced Bacteriology, and Mathematics.

For application blanks and further information, address the Director of Admissions, The George Washington University, Washington 6, D. C.

SEE "PLAN OF INSTRUCTION," PAGE 24.

\* Beginning in June 1949, the schedule of the senior year will be on a quarterly basis covering a calendar year. The formal academic assignments will occupy three terms. The fourth term will be for the purpose of additional experience in laboratory work or for vacation. The senior class will be divided into four groups. Group I will be less than two hundred, Group II, in the fall, Group III, in the winter, and Group IV, in the spring.

The Faculty of the School of Medicine will intensify the efforts for the first quarter so as to make them important factors in the program. It is planned that electives may include: (1) junior internships; (2) investigative work; or (3) clinical experience under a general practitioner or specialist.

## COURSES OF INSTRUCTION

On the following pages of this BULLETIN, under the alphabetically arranged names of the departments of instruction, are listed the courses of instruction offered by the School of Medicine. The courses here listed are subject to some slight change. The University reserves the right to withdraw any course announced.

### EXPLANATION OF COURSE NUMBERS AND SYMBOLS

The number which precedes the name of a course indicates the term or the academic year in which the course is offered. An odd number indicates that the course is offered in the fall term; an even number, that it is offered in the winter term; and a double number (e.g., 343-44), that it begins in the fall term and continues in the winter.

A number in parentheses after the name of a nonprofessional course, indicates credit hours.

First-year courses are numbered from 101 to 200; second year courses, from 201 to 300; third-year courses, from 301 to 400; and fourth year courses, from 401 to 500.



## ANATOMY

Warren Andrew, Ph.D., M.D., *Professor of Anatomy, Executive Officer*  
 Webb Edward Haymaker, M.D., M.S., *Professorial Lecturer in Anatomy*  
 Paul Calabrisi, A.M., *Associate Professor of Anatomy*  
 Frederick Burgess Hartsock, M.D., *Instructor in Anatomy*  
 Thomas Clarkson Worth, M.D., *Clinical Instructor in Anatomy*  
 Merton Waite, M.D., *Teaching Fellow in Anatomy*

### 101-2 *Gross Anatomy*

The Staff

Regional dissection of the human body, supplemented with lectures and quiz sections. Study of X-ray anatomy to emphasize the functional aspects of the skeleton, joints, and relations of the viscera and skeletal components. Fifteen hours a week, fall term; nine hours a week, winter term.

### 103 *Human Embryology*

The Staff

The origin and development of the human body. Special emphasis on the value of embryology in interpreting anatomical variations and variations as seen in gross dissection, surgery, obstetrics, and pathology. Three hours a week.

### 105 *Neuro-anatomy*

The Staff

The microscopic and macroscopic study of the central nervous system and the cranial nerve system. Emphasis on such systemic aspects as development, pathology, lesions, etc. Six hours a week.

### 106 *Microscopic Anatomy*

The Staff

Study of the detailed minute structure of cells, tissues, and organs of the human body with emphasis on the relation of structure to function. Recognition and interpretation of histological variations tested by practical examinations. Six hours a week.

### 201-2 *Seminar*

The Staff

Reports and discussion of special topics by the staff and graduate students. Regular medical students are encouraged to attend. One hour a week.

### 205-90 *Research*

The Staff

Hours and credits to be arranged.

### 299-300 *Thesis (3-5)*

The Staff

## ANESTHESIOLOGY

Lloyd Harvey Mousel, M.S., M.D., *Professor of Anesthesiology, Executive Officer*

Donald Harrison Stubbs, A.M., M.D., *Clinical Professor of Anesthesiology*

Charles Seymour Coakley, M.D., *Assistant Professor of Anesthesiology*

Seymour Alpert, A.B., M.D., *Instructor in Anesthesiology*

### 260 *Anesthesiology*

The Staff

Review of basic sciences and correlation between basic sciences and clinical work. One hour a week.

### 333-34 *Advanced Anesthesiology*

The Staff

Fourth year students are rotated through the work of the department for a period of two weeks for each student and assigned to work in operating room, conference, and seminars.

### 480 *Research*

The Staff

Hours to be arranged.

## BACTERIOLOGY, HYGIENE, AND PREVENTIVE MEDICINE

Leland Wilbur Parr, Ph.D., *Professor of Bacteriology. Executive Officer*  
Ralph Gregory Beachley, M.D., Dr.P.H., *Adjunct Professor of Public  
Health Practice*

Angus MacIvor Griffin, Ph.D., *Associate Professor of Bacteriology*

Mary Louise Robbins, Ph.D., *Assistant Professor of Bacteriology*

Lewis Walke McIlhany, M.S., M.D., *Clinical Instructor in Public  
Health Practice*

William Gray McCarten, B.S., *Associate in Bacteriology*

### SEMINAR LECTURERS

Charles Armstrong, B.S., M.D., Sc.D., *Professorial Lecturer in Pre-  
ventive Medicine*

Rolla Eugene Dyer, A.B., M.D., LL.D., *Professorial Lecturer in Pre-  
ventive Medicine*

Royd Ray Sayers, A.M., M.D., *Professorial Lecturer on Industrial  
Hygiene*

Sara Elizabeth Branham, Ph.D., M.D., Sc.D., *Professorial Lecturer in  
Preventive Medicine*

Chester Wilson Emmons, Ph.D., *Professorial Lecturer on Medical My-  
cology*

Willard Hull Wright, D.V.M., Ph.D., *Professorial Lecturer on Medical  
Zoology*

John Roderick Heller, Jr., B.S., M.D., *Professorial Lecturer on Venereal  
Disease Control*

Carl John Lauter, M.S., *Professorial Lecturer on Municipal Sanitation*

Robert Carter Cook, *Professorial Lecturer on Medical Genetics*

Robert Hanna Felix, M.D., M.P.H., *Professorial Lecturer on Mental  
Hygiene*

William Wesley Peter, Ph.M., M.D., Dr. P.H., *Professorial Lecturer  
on Public Health Administration*

### 112 General Bacteriology (4)

Griffin, Robbins

A study of the fundamentals of bacteriology, including industrial and hygienic applications. Several groups of bacteria, yeasts, and molds are studied in the laboratory. Material fee, \$7.50. Tues., Thurs., and Sat., 9:15 to 12:30 A.M.

209 *Medical Microbiology* (1-13)

Parr and Staff

Bacteria, rickettsia, viruses, yeasts, molds, protozoa, and metazoa which relate to the health and diseases of man—critical study of most important forms, methods of diagnosis by microscopic, cultural, immunologic, and animal reaction methods; theory and methods of immunology; vaccines; serums; antibiotics; epidemiology and trends; methods of preventive medicine and public health practice. Open to suitably prepared graduate students; may be elected as a whole or in part, with credit allocated as follows: (1) *Bacteriology*, including virology and yeasts (17); (2) *Parasitology*, including medical entomology (11); (3) *Immunology* (11); and (4) *Pathology and Therapeutics of Protozoan Medicine and Public Health* (12)—required of Pharmacy major.—Tue., 8:00 A.M. and Thurs., 9:00 A.M.

219-20 *Advanced Microbiology*

Griffin and Staff

Special study of advanced methods and current problems in microbiology for suitably qualified students specializing in microbiology. Prerequisite: Bacteriology 112 or 209, Chemistry 151-52 or the equivalent. Time and credits to be arranged.

295-96 *Research in Bacteriology*

The Staff

Time and credits to be arranged.

299-300 *Thesis* (3-3)

The Staff

305-6 *Staff Seminar* (1-1)

Parr and Staff

Bi-weekly throughout the year.

401-2 *Public Health Practice* (1-1)

Beachley

Study of public health practice at national, state, city, and county levels. Public and private agencies. Sat., 10:00 A.M.

404 *Industrial Hygiene* (1)

Sayers

For senior medical students and qualified graduate students. Lecture course dealing with the problems of health maintenance and disease prevention and cure as affected by industry.



## BIOCHEMISTRY

Joseph Hiram Roe, Ph.D., *Professor of Biochemistry, Executive Officer*  
 \*Arnold Kent Balls, Ph.D., *Adjunct Professor of Enzymology*  
 William Henry Sebrell, Jr., M.D., *Professorial Lecturer on Nutrition*  
 George Washington Irving, Jr., Ph.D., *Professorial Lecturer on Proteins*  
 Carleton Raymond Treadwell, Ph.D., *Associate Professor of Biochemistry*  
 Mary Barbara Mills, M.S., *Instructor in Biochemistry*  
 Norman Philip Goldstein, A.M., M.D., *Instructor in Biochemistry*

- 113-14 *Biochemistry* Roe and Staff  
 Physiological and clinical chemistry for the distal-year medical students. Two lectures and two three-hour laboratory periods a week.
- 221-22 *Biochemistry* (4-4) Treadwell  
 A lecture and laboratory course for premedical students. Prerequisite: Chemistry 152. Material fee, \$12 a term. Tues. and Thurs., 1:00 to 12:00 A.M. and 1:00 to 2:00 P.M.
- 224 *Biochemistry of the Enzymes* Balls  
 Lecture course dealing with the biochemistry of the enzymes and enzyme reactions. Prerequisite: Biochemistry 113 or 221. (Not offered in 1948-49.)
- 225 *Biological Preparations* The Staff  
 Material fee, \$10. Time and credits to be arranged.
- 226 *Biochemical Laboratory Methods* The Staff  
 Material fee, \$10. Time and credits to be arranged.
- 227-28 *Biochemistry Seminar* (1-1) Roe  
 The current literature in the field of biochemistry, mainly for graduate students. Not more than a limited number of specially qualified medical students. Fri., 4-4:45 P.M.
- 231 *Proteins and Amino Acids* (1) Irving  
 A lecture course. Prerequisite: Biochemistry 114 or 222. Mon., 4-4:45 P.M.
- 295-96 *Research in Biochemistry* Roe, Treadwell  
 Time and credits to be arranged.
- 299-300 *Thesis* (3-3) Roe
- 4-4 *Applied Nutrition* (1) Sebrell  
 For senior medical students and graduate students. Lecture course upon dietary requirements, deficiency diseases, and therapeutic diets. Prerequisite: Biochemistry 114 or 222. Tues., 4-4:45 P.M.

\* On leave of absence 1948-49.

## DERMATOLOGY AND SYPHILOLOGY

- Harry Ford Anderson, M.D., *Professor of Dermatology and Syphilology, Executive Officer*  
 George William Creswell, A.B., M.D., *Assistant Clinical Professor of Dermatology and Syphilology*  
 Hayden Kirby Smith, B.S., M.D., *Assistant Clinical Professor of Dermatology and Syphilology*  
 Theodore Claremont Chen Fong, M.D., *Associate in Dermatology and Syphilology*  
 James Quincy Gant, Jr., M.S., M.D., *Associate in Dermatology and Syphilology*  
 Wendell Melvin Willett, M.D., *Clinical Instructor in Dermatology and Syphilology*

- 313-14 *Dermatology and Syphilology* The Staff  
 Lectures on diseases of the skin and syphilis. One hour a week.  
 316 *Neurosyphilis* Fong  
 Lectures, clinical demonstrations, and practical diagnostic and therapeutic procedures. One hour a week for eight weeks.  
 317-18 *Clinic* The Staff  
 Case demonstrations, diagnosis, and treatment of skin diseases and syphilis. Three hours a week. Gallinger Hospital.  
 407-8 *Clinic* The Staff  
 Dermatology and syphilology in infants and children. Childrens Hospital. Two hours a week.  
 409-10 *Clinic* The Staff  
 Clinical demonstration, diseases of the skin. Two hours a week. Emergency Hospital.  
 411-12 *Clinic* The Staff  
 Clinical demonstrations, diseases of the skin, and diagnosis and therapy of syphilis. One hour a week. University Hospital.  
 413-14 *Clinic* Creswell  
 Diagnosis, laboratory procedures, and treatment of syphilis. Two hours a week. Southwest Health Center.

## MEDICINE

- Walter Andrew Bloedorn, A.M., M.D., *Professor of Medicine*  
 Thomas McPherson Brown, A.B., M.D., *Professor of Medicine, Executive Officer*  
 Coursen Baxter Conklin, A.M., M.D., *Clinical Professor of Medicine*  
 Charles Robert Lee Hallev, A.B., M.D., *Clinical Professor of Medicine*  
 Paul Frederick Dickens, M.D., *Clinical Professor of Medicine*  
 Harry Filmore Dowling, A.B., M.D., *Clinical Professor of Medicine*  
 Benjamin Frank Miller, B.S., Chem. Eng., M.D., *Clinical Professor of Medicine*  
 Sol Katz, B.S., M.D., *Adjunct Clinical Professor of Medicine*  
 Louis Katz Alpert, B.S., M.D., *Adjunct Clinical Professor of Medicine*  
 Harry Eagle, A.B., M.D., *Adjunct Clinical Professor of Medicine*  
 Joseph Francis Sadusk, Jr., A.B., M.D., *Adjunct Clinical Professor of Medicine*  
 Clark Harvey Yeager, M.D., Dr. P.H., *Professorial Lecturer on Tropical Medicine*  
 Norman Hawkins Topping, A.B., M.D., *Professorial Lecturer on Rickettsial Diseases*  
 Monroe James Romansky, A.B., M.D., *Associate Professor of Medicine*  
 Clayton Bernard Ethridge, M.D., *Associate Clinical Professor of Medicine*  
 Walter Kendall Myers, B.S., M.D., *Assistant Clinical Professor of Medicine*  
 John Alton Reed, A.B., M.D., *Assistant Clinical Professor of Medicine*  
 Theodore Judson Abernethy, B.S., M.D., *Assistant Clinical Professor of Medicine*  
 William Travis Gibb, A.B., M.D., *Assistant Clinical Professor of Medicine*  
 John McCallum Evans, A.B., M.D., *Assistant Clinical Professor of Medicine*  
 Carl Calvin Dauer, A.B., M.D., M.P.H., *Assistant Clinical Professor of Medicine*  
 Roy Hertz, Ph.D., M.D., *Assistant Clinical Professor of Medicine*  
 Carl Leonard Larson, B.S., M.D., *Assistant Clinical Professor of Medicine*  
 Samuel Ross Taggart, M.D., *Assistant Clinical Professor of Medicine*  
 Watson William Eldridge, Jr., M.D., *Associate in Medicine*  
 Herman Solomon Hoffman, A.B., M.D., *Associate in Medicine*  
 John Minor, A.B., M.D., *Associate in Medicine*  
 Maurice Protas, A.B., M.D., *Associate in Medicine*

- John Watkins Trenis, A.B., M.D., *Associate in Medicine*  
 Pearl Holly, M.S., M.D., *Associate in Medicine*  
 Benjamin Manchester, M.D., *Associate in Medicine*  
 Irving Wolfe Winik, M.D., *Associate in Medicine*  
 Lawrence Jay Thomas, B.S., M.D., *Associate in Medicine*  
 James Joseph Feffer, A.B., M.D., *Associate in Medicine*  
 Lawrence Elias Putnam, A.B., M.D., *Associate in Medicine*  
 Eugene Pitcher Cronkite, A.B., M.D., *Associate in Medicine*  
 Clarence Richard Hartman, A.B., M.D., *Associate in Medicine*  
 Andrew Gabriel Prandoni, B.S., M.D., *Associate in Medicine*  
 Bernard Lauriston Hardin, Jr., A.B., M.D., *Associate in Medicine*  
 Albert David Kistin, A.M., M.D., *Associate in Medicine*  
 Charles William Ordman, A.B., M.D., *Associate in Medicine*  
 Ruth Hechler Wichelhausen, M.D., *Associate in Medicine*  
 Richard Bernard Castell, A.B., M.D., *Clinical Instructor in Medicine*  
 Luther Henry Snyder, A.B., M.D., *Clinical Instructor in Medicine*  
 Emil Herbert Bauersteld, A.B., M.D., *Clinical Instructor in Medicine*  
 John Bayne Marbury, M.D., *Clinical Instructor in Medicine*  
 Louis Ross, M.D., *Clinical Instructor in Medicine*  
 James Theodore Burns, M.D., *Clinical Instructor in Medicine*  
 Frederic Dunbar Chapman, A.B., M.D., C.M., *Clinical Instructor in Medicine*  
 Irvin Kerlan, B.S., M.D., C.P.H., *Clinical Instructor in Medicine*  
 Virginia Patterson Beelar, A.B., M.D., *Clinical Instructor in Medicine*  
 Myer Harold Stolar, B.S., M.D., *Clinical Instructor in Medicine*  
 Alfred Briglio, M.D., *Clinical Instructor in Medicine*  
 Lester Sylvan Blumenthal, A.B., M.D., M.S. in Med., *Clinical Instructor in Medicine*  
 Samuel Jacob Nathan Sugar, Phar.G., M.D., *Clinical Instructor in Medicine*  
 Joseph Ney, B.S., M.D., *Clinical Instructor in Medicine*  
 Henry Dunlop Ecker, B.S., M.D., *Clinical Instructor in Medicine*  
 John Wilmer Latimer, Jr., M.D., *Clinical Instructor in Medicine*  
 Mark Hummer Lepper, M.D., *Clinical Instructor in Medicine*  
 Charles Wilson Jones, A.B., M.D., *Clinical Instructor in Medicine*  
 Halla Brown, M.D., *Clinical Instructor in Medicine*  
 Frank Solomon Bacon, B.S., M.D., *Clinical Instructor in Medicine*  
 Joseph Beinstein, A.B., M.D., *Clinical Instructor in Medicine*  
 William Kirkman Billingslev, Jr., A.B., M.D., *Clinical Instructor in Medicine*  
 DeWitt Elmer DeLawter, M.D., *Clinical Instructor in Medicine*  
 William Frank, M.D., *Clinical Instructor in Medicine*  
 Camp Stanley Huntington, M.D., *Clinical Instructor in Medicine*



Stanley William Kirstein, M.D., *Clinical Instructor in Medicine*  
 James Walling Long, M.D., *Clinical Instructor in Medicine*  
 Ralph Bretney Miller, M.D., *Clinical Instructor in Medicine*  
 Thomas Joseph Pekin, M.D., *Clinical Instructor in Medicine*  
 Alvin Rouzer, B.S., M.D., *Clinical Instructor in Medicine*  
 Raymond Schwartz, A.B., M.D., *Clinical Instructor in Medicine*  
 Gordon Murdoch Smith, A.B., M.D., *Clinical Instructor in Medicine*  
 Robert George Taylor, M.D., *Clinical Instructor in Medicine*  
 Charles Waters Thompson, M.D., *Clinical Instructor in Medicine*  
 Maurice Franks, M.D., *Clinical Instructor in Medicine*  
 Charles Edward Law, M.D., *Clinical Instructor in Medicine*  
 Thomas Stone Sappington, A.B., M.D., *Clinical Instructor in Medicine*  
 James Francis Ambury, B.S., M.D., *Clinical Instructor in Medicine*  
 William Otis Bailey, Jr., M.D., *Clinical Instructor in Medicine*  
 Harry Clark Bates, B.S., M.D., *Clinical Instructor in Medicine*  
 Joseph Andrew Brennan, M.D., *Clinical Instructor in Medicine*  
 Robert Lee Brickhouse, B.S., M.D., *Clinical Instructor in Medicine*  
 Robert Norwood Coale, B.S., M.D., *Clinical Instructor in Medicine*  
 Israel Kessler, M.S., M.D., *Clinical Instructor in Medicine*  
 Maurice Mensh, M.D., *Clinical Instructor in Medicine*  
 Frank Murray, A.B., M.D., *Clinical Instructor in Medicine*  
 Edwin Pearson Parker III, B.S., M.D., *Clinical Instructor in Medicine*  
 Jack Jacob Rheingold, A.B., M.D., *Clinical Instructor in Medicine*  
 Morris Hirsh Rosenberg, A.B., M.D., *Clinical Instructor in Medicine*  
 Hyman Joseph Zimmerman, A.B., M.D., *Clinical Instructor in Medicine*  
 Eston Robert Caldwell, B.S., M.D., *Teaching Fellow in Medicine*  
 Ruth Benedict, A.B., M.D., *Teaching Fellow in Cardiology*

132 *History of Medicine*  
 One hour a week.

Conklin

236 *Laboratory Medicine and Hematology* Holly, Crankite  
 Lectures and laboratory work covering aspects of laboratory diagnosis of disease of the blood, hematology, and study of special fluid. Leukemia, anemia, leukemias, and other blood dyscrasias. Three hours a week.

241-42 *Physical Diagnosis*

Puinam and Staff

Demonstrations and practice on the normal and abnormal subject designed to cover the entire subject of physical diagnosis.

244 *General Medicine*

Brown and Staff

Lectures covering general aspects of all phases of medical disease and including therapeutics. Three hours a week.

- 298 *Cardiovascular System* Bloedorn and Staff  
The etiology, diagnosis, and treatment of the diseases of the heart, pericardium, and peripheral vessels with an introductory course on electrocardiography. One hour a week.
- 301 *The Heart* Brown and Staff  
Lectures covering normal and abnormal heart. One hour a week.
- 324 *Clinical Physiology* Brown and Staff  
Lectures and clinics for the correlation of preclinical and laboratory studies of physiology with altered function as observed in clinic and ward. One hour a week.
- 325-26 *Clinical Clerkship* Dowling and Staff  
Individual case work under strict supervision (student's histories generally accepted as hospital records). Emergency and Gallinger hospitals.
- 327-28 *Clinical Pathological Conference* Brown, Choisser  
Required in the third and fourth years. Correlation of clinical and post-mortem findings. Detailed case descriptions from the clinical point of view, followed by the demonstration, orally and with lantern slides, of post-mortem findings. One hour a week.
- 349-50 *Grand Ward Rounds* Dowling and Staff  
Conducted weekly at Gallinger Hospital. Cases are presented at this conference by members of the Resident Staff and Visiting Staff.
- 416 *Tropical Medicine* Yeager  
Lectures, laboratory exercises, and clinical demonstrations designed to familiarize the student with problems of tropical medicine. Two hours a week.
- 420 *Medical Jurisprudence* Eldridge  
Lectures on the legal and ethical rights of physicians, and on the legal problems with which the physician is brought into contact. One hour a week for seven weeks.
- 421-22 *Dispensary Clinics* The Staff  
Pharmacological studies of cases of patients reviewed in detail by the Staff. The University and Emergency hospitals.
- 425-26 *Clinical Clerkship* The Staff  
Individual case work under strict supervision (student's histories generally accepted as hospital records). The University Hospital.
- 440 *Clinical Pharmacology* The Staff  
Basic review of materia medica, prescription writing and the fundamentals of interpretation, discussion of the pharmacological basis of therapeutics.

## MILITARY SCIENCE AND TACTICS\*

Vernon David Pettit, B.S., M.D., Lieutenant Colonel, Medical Corps,  
United States Army, *Professor of Military Science and Tactics*

### 129-30 *Basic Course, Senior Division ROTC* Pettit (First Year)

World situation, national defense, and ROTC (3); military obligations of citizenship (1); contribution of the Army (1); organization of the Medical Department (5); courtesies and customs of the Service (2); military law (4); military training (2); medical military history (1); military administration (3); examination and discussion (1).

### 247-48 *Basic Course, Senior Division ROTC* Pettit (Second Year)

World situation, national defense, and ROTC (3); organization and employment of medical service of field army (5); duties of the surgeon (3); medical service, zone of communications (3); medical service, zone of interior (3); medical supply (3); introduction to map reading (4); health and national security (2); fire and bandaging, and splinting (5); examination and discussion (1).

### 329-30 *Advanced Course, Senior Division ROTC*† Pettit (First Year)

World situation, national defense, and ROTC (3); military preventive medicine (2); field medicine and surgery (10); army subordinate professional education program (1); army career (1); examination and discussion (1).

### 429-30 *Advanced Course, Senior Division ROTC*† Pettit (Second Year)

World situation, national defense, and ROTC (3); military preventive medicine (11); medical service of atomic warfare (2); medical service of chemical warfare (2); military psychiatry (5); personnel management (4); military medical research development (3); organized reserve corps (1); medication (1); examination and discussion (1).

\* Figures in parentheses indicate the number of hours devoted to the subject.

† Subjects in the advanced course are selected from those who satisfactorily complete the basic course, or have one year of college training.

## NEUROLOGY AND NEUROLOGICAL SURGERY

Walter Freeman, Ph.D., M.D., *Professor of Neurology, Executive Officer*

James Winston Watts, B.S., M.D., *Professor of Neurological Surgery*

Hyman David Shapiro, M.D., *Assistant Clinical Professor of Neurology*

Robert Henry Groh, B.S., M.D., *Associate in Neurology*

Paul Chodoff, A.B., M.D., *Associate in Neurology*

James Peter Murphy, B.S., M.D., *Associate in Neurological Surgery*

George Davis Weickhardt, M.D., *Clinical Instructor in Neurology*

Hugo Victor Rizzoli, A.B., M.D., *Clinical Instructor in Neurological Surgery*

Jonathan Marshall Williams, M.D., *Clinical Instructor in Neurology and Neurological Surgery*

Oscar Legault, A.B., M.D., *Clinical Instructor in Neurology*

### 249-50 *Neurology (elective)*

Freeman

Methods of study of the nervous system. Gross and microscopic preparations, embryology, comparative anatomy, stimulation and excitation, human pathology, etc. Laboratory demonstrations. One hour a week.

### 331 *Neurology*

Shapiro and Staff

Systematic lectures with lecture slides, illustrating the chief neurologic syndromes and their anatomical bases. One hour a week.

### 333-34 *Neurology and Neurological Surgery, Clinical Clerkship*

Freeman and Staff

Instruction in history, physical examination, ordinary clinical procedures. Attendance at neurologic operations. Gallinger Hospital. Four students in rotation, two weeks.

### 335-36 *Neurological Conference*

Freeman and Staff

Clinical conference one afternoon a week followed by clinic and basic study of problems from current neurosciences. Gallinger Hospital. Two students in rotation a week.

### 431-32 *Neurology Clinic*

Freeman and Staff

Neurological outpatient clinic. Consultation of staff on ambulatory cases, demonstration of diagnostic procedure, disposition of neuro-psychiatric cases. Discussion of neuropathologic material. Two hours a week.



433-34 *Neurosurgery*

Watts and Staff

Clinical demonstrations in surgery of the brain, spinal cord, and peripheral nerves. Emphasis is laid upon the diagnosis and upon the possibilities of surgery in the relief of symptoms. Section of four students, two hours a week.

435-36 *Neurology, Clinical Clerkship*

Weickhardt

Instruction in manifestations of organic nervous diseases associated with mental disorder. St. Elizabeth's Hospital. Four students in rotation, two days.

## OBSTETRICS AND GYNECOLOGY

- John Parks, M.S., M.D., *Professor of Obstetrics and Gynecology, Executive Officer*
- Radford Brown, M.D., *Clinical Professor of Obstetrics and Gynecology*
- Jacob Kotz, M.D., *Clinical Professor of Obstetrics and Gynecology*
- Henry Lauran Darnet, A.B., M.D., *Clinical Professor of Obstetrics and Gynecology*
- Herbert Percy Ramsey, A.B., M.D., *Clinical Professor of Obstetrics and Gynecology*
- Robert Barter, M.D., *Adjunct Clinical Professor of Obstetrics and Gynecology*
- George Nordlinger, A.B., M.D., *Associate in Obstetrics and Gynecology*
- Laurence Lee Cockerille, M.D., *Associate in Obstetrics and Gynecology*
- Clayton Howard Hixson, M.D., *Associate in Obstetrics and Gynecology*
- Henry John Russell McNitt, B.S. in Med., M.D., *Associate in Obstetrics and Gynecology*
- Samuel Mayer Dodek, A.M., M.D., *Associate in Obstetrics and Gynecology*
- Russel Jon Jansen, M.D., *Associate in Obstetrics and Gynecology*
- Howard Pope Parker, A.B., M.D., *Associate in Obstetrics and Gynecology*
- Roger O'Donnell, Jr., A.B., M.D., *Associate in Obstetrics and Gynecology*
- James Albert Dushabek, M.D., *Associate in Obstetrics and Gynecology*
- Barton Winters Richwine, M.D., *Associate in Obstetrics and Gynecology*
- Clarence Kendall Fraser, Ph.B., M.D., *Associate in Obstetrics and Gynecology*
- Neel Jack Price, B.S., M.D., *Instructor in Obstetrics and Gynecology*
- Katherine Elizabeth Parker, A.M., M.D., *Clinical Instructor in Obstetrics and Gynecology*
- William Dandridge Terrell, Jr., M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Samuel Hazen Shea, M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Julius Robert Epstein, M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Morton Selwyn Kaufman, A.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Floyd Sterling Rogers, M.D., *Clinical Instructor in Obstetrics and Gynecology*

- Rufus Martin Roll, A.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Caroline Jackson, A.M., M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Jeremiah Keith Cromer, M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Jed Williams Pearson, Jr., A.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Thomas Miles Leonard, Ph.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*
- William Thurston Lady, M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Albert Seymour Bright, M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Shirley Sue Martin, M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Ekrem Turan, M.D., *Teaching Fellow in Obstetrics and Gynecology*

253-54 *Normal Obstetrics* Fraser, Dodek  
Lectures and demonstrations on the physiology and management of normal pregnancy. One hour a week.

337-38 *Abnormal Obstetrics* Nordlinger, Parks  
Lectures and demonstrations on the complications of pregnancy. One hour a week.

343 *Gynecology* Brown  
Lectures and demonstrations on the principles of gynecology. One hour a week.

344 *Marriage and Marital Problems* Ramsey, Nordlinger  
A course of instruction in marriage counseling and planned parenthood. One hour a week.

348 *Female Endocrinology and Operative Gynecology* Kutz, Darner

Lectures on the physiology and pathology of the female endocrine system and on principles of gynecological surgery. One hour a week.

431-2 *Maternal Demonstrations* Lally  
The mechanism of labor and various types of operative delivery demonstrated to students at the clinic in weekly sessions.

441-42 *Clinical Obstetrics* Parks and Staff  
Senior students participate in prenatal and postnatal care, make postpartum home calls, observe the course of labor and deliver patients under supervision; attend (biweekly) departmental conferences and daily ward rounds in the University, Gabeizer, and Garfield hospitals.

443-44 *Clinical Gynecology* Parks and Staff  
Senior students observe and participate in the gynecological work of clinics, operating rooms, and gynecological wards of the University, Gabeizer, and Garfield hospitals.

## OPHTHALMOLOGY

- Ernest Alfred Watson Sheppard, M.D., C.M., *Professor of Ophthalmology, Executive Officer*
- Ronald Atmore Cox, A.B., M.D., *Assistant Clinical Professor of Ophthalmology*
- Frank Duncan Costenbader, B.S., M.D., *Assistant Clinical Professor of Ophthalmology*
- Richard Wallace Wilkinson, M.S., M.D., *Associate in Ophthalmology*
- Sterling Bockoven, M.D., *Associate in Ophthalmology*
- Walter Joseph Romejko, M.D., *Clinical Instructor in Ophthalmology*
- Carmon Robert Naples, B.S., M.D., *Clinical Instructor in Ophthalmology*
- Micollus Noel Stow, M.D., D.M.S., *Clinical Instructor in Ophthalmology*
- James Spencer Dryden, M.D., *Clinical Instructor in Ophthalmology*
- William Paxson Chalfant, Jr., M.D., *Clinical Instructor in Ophthalmology*
- William Joseph Graham Davis, A.B., M.D., *Clinical Instructor in Ophthalmology*
- William Henry Hanna, A.B., M.D., *Clinical Instructor in Ophthalmology*

### 351-52 *Ophthalmology*

The Staff

A lecture course presenting the principles of ophthalmology, with special reference to topics of importance to the general practitioner. One hour a week for sixteen weeks.

### 447 *Clinic*

The Staff

Intensive training in diseases of the eye, etiology, diagnosis, and treatment in their application to clinical cases. Episcopal Hospital. Three hours twice a week.



## OTO-RHINO-LARYNGOLOGY

Daniel Bruce Moffett, A.B., M.D., *Professor of Oto-rhino-laryngology,  
Executive Officer*

William Herndon Jenkins, M.D., *Clinical Professor of Oto-rhino-laryn-  
gology*

Leroy Lee Sawyer, A.B., M.D., *Assistant Clinical Professor of Oto-  
rhino-laryngology*

David Davis, A.B., M.D., *Associate in Oto-rhino-laryngology*

Aubrey David Fischer, M.D., *Associate in Oto-rhino-laryngology*

Joel Norton Novick, M.S., M.D., *Clinical Instructor in Oto-rhino-  
laryngology*

John Gordon Bell, M.D., *Clinical Instructor in Oto-rhino-laryngology*

Catharine Birch, A.B., M.D., *Clinical Instructor in Oto-rhino-laryn-  
gology*

Homer King Vann, A.B., M.D., *Clinical Instructor in Oto-rhino-laryn-  
gology*

James Jerry McFarland, Jr., A.B., M.D., *Clinical Instructor in Oto-  
rhino-laryngology*

451 *Oto-rhino-laryngology* Moffett, Jenkins  
Lectures and demonstration on anatomy, physiology, and diseases of  
the ear, nose, and throat. One hour a week.

454 *Basic Principles* Davis  
A series of lectures on the fundamental principles and the use of in-  
struments, including both the laryngoscope and endoscope. One  
hour a week for two weeks.

456 *Clinic* The Staff  
Practical clinical instruction in the diagnosis and treatment of diseases  
of the ear, nose, and throat. Laryngeal Examination and endoscopy  
hours twice a week.

## PATHOLOGY

Roger Morrison Choisser, B.S., M.D., *Professor of Pathology, Executive Officer*

Thomas Martin Peery, A.B., M.D., *Associate Professor of Pathology*

Carl Hunt Wells, B.S., M.D., *Associate Professor of Pathology*

Robert Pelley Hill, B.S., M.D., *Assistant Professor of Pathology*

William John Schewe, A.B., B.S. in Med., M.D., *Instructor in Pathology*

Robert Rice Montgomery, A.B., M.D., *Teaching Fellow in Pathology*

Frederick Shillinger, B.S., M.D., *Teaching Fellow in Pathology*

Max Stephen Millar, A.B., M.D., *Teaching Fellow in Pathology*

### SEMINAR LECTURERS

Elson Bowman Helwig, B.S., M.D., *Professorial Lecturer in Pathology*

Hans Frank Smetana, M.D., *Professorial Lecturer in Pathology*

Henry Rappaport, M.D., *Professorial Lecturer in Pathology*

James Earle Ash, Jr., M.D., *Professorial Lecturer in Pathology*

#### 259-60 *Pathology*

Choisser and Staff

Malignancies, inflammations, degenerations, and neoplasms, special pathology of the organs and specific diseases. The laboratory work consists of the gross and microscopic study of diseased tissues. Necropsies are held regularly at the University and Gaffinger hospitals.

#### 307 *Necropsy (elective)*

The Staff

Students assist in the performance of necropsies. Fresh gross specimens and microscopic sections from each case are presented at weekly conferences. Current literature relating to cases is reviewed and presented by the students.

#### 327-28 *Clinical Pathological Conference*

Choisser, Brown

Required in the third and fourth years. Case histories are presented and discussed by members of the staff and student body. Necropsy and clinical findings are compared, and gross and microscopic specimens examined. One hour a week.

#### 400 *Research*

Choisser

Hours and credits to be arranged.

## PEDIATRICS

Preston Alexander McLendon, B.S., M.D., *Professor of Pediatrics, Executive Officer*

Margaret Mary Nicholson, A.B., M.D., *Clinical Professor of Pediatrics*

Edward Lewis, M.D., *Clinical Professor of Pediatrics*

William Staton Anderson, A.B., M.D., *Clinical Professor of Pediatrics*

Lewis Kaigler Sweet, A.B., M.D., *Adjunct Clinical Professor of Pediatrics*

Mabel Harlakenden Grosvenor, A.B., M.D., *Assistant Clinical Professor of Pediatrics*

John Augustine Washington, A.B., B.S., M.D., *Assistant Clinical Professor of Pediatrics*

Vernon Nichols, A.B., M.D., *Assistant Clinical Professor of Pediatrics*

\*Dorothy Steidle Jaeger, M.D., *Assistant Clinical Professor of Pediatrics*

George Maksim, M.D., M.S. in Ped., *Assistant Clinical Professor of Pediatrics*

Reginald Lourie, M.D., *Associate in Pediatrics*

Henry Harcus Work, A.B., M.D., *Associate in Pediatrics*

John Howell Peacock, B.S., M.D., *Clinical Instructor in Pediatrics*

Herbert Harold Diamond, M.D., *Clinical Instructor in Pediatrics*

Frederic Gerard Burke, B.S., M.D., *Clinical Instructor in Pediatrics*

Reginald Henry Mitchell, M.D., *Clinical Instructor in Pediatrics*

Maynard Irving Cohen, A.B., M.D., *Clinical Instructor in Pediatrics*

William Allen Howard, A.B., M.D., *Clinical Instructor in Pediatrics*

Mary Katherine Laurence Sartwell, A.B., M.D., *Clinical Instructor in Pediatrics*

Sidney Ross, M.D., *Clinical Instructor in Pediatrics*

Charles Frederick Stiegler, A.B., M.D., *Clinical Instructor in Pediatrics*

William Crenshaw Smith, B.S., M.D., *Teaching Fellow in Pediatrics*

Allan Bertram Coleman, M.D., *Teaching Fellow in Pediatrics*

### 355-56 *Pediatrics*

McLendon and Staff

Lectures on physiology of the newborn, development, infant nutrition, diseases of the newborn, common anomalies and system illnesses of childhood. Gahinger Municipal Hospital. One hour weekly.

### 357-58 *Clinical Clerkship—General Pediatrics*

Nicholson and Staff

General pediatric diseases and the newborn. Emphasis on history taking and physical examination. Daily ward rounds. Gahinger Municipal Hospital. Five students in rotation, two weeks.

\* On leave of absence full term 1948-49.

359-60 *Clinical Clerkship—Contagious Diseases* Grosvenor and Staff

Preventive and quarantine measures. Daily ward rounds and conferences. Gallinger Municipal Hospital. Five students in rotation, two weeks.

361-62 *Clinical Conference* McLendon and Staff

Required in third year. Presentation and discussion of current patient problems. Gallinger Municipal Hospital. One hour weekly.

457-58 *Clinical Clerkship* McLendon and Staff

Full time including assignment to night and holiday admissions. Case studies on ward, under direct Resident supervision. Ward rounds with Staff and Residents. Childrens Hospital. Ten students, four weeks.

459-60 *Out-patient Clinics* Washington and Staff

Work in Medical and Specialty clinics including surgery, allergy, X-ray, child welfare, cardiology, dermatology, neurology, and child endocrine. Childrens Hospital.

461-62 *Clinico-pathological Conference* McLendon and Staff

Clinical and pathological discussion of recent patient history and laboratory data. Childrens Hospital.

463-64 *Group Conferences* McLendon and Staff

Discussion of clinical problems of diagnosis and treatment of current patients. Childrens Hospital. Twice weekly.



## PHARMACOLOGY

**Paul Kenneth Smith, Ph.D.,** *Professor of Pharmacology, Executive Officer*

**Erwin Ellis Nelson, M.D., Ph.D.,** *Adjunct Clinical Professor of Pharmacology*

**Edward Leong Way, Ph.D.,** *Assistant Professor of Pharmacology*

**Aldo Peter Truant, A.B.,** *Instructor in Pharmacology*

**261 Pharmacology** The Staff

Lectures and conferences concerning the interaction of drugs and biological systems as a basis for the rational therapy of disease. Five hours a week.

**263 Pharmacology Laboratory** The Staff

Laboratory instruction and demonstrations designed to complement the above course. Five hours a week.

**265 Chemotherapy** The Staff

Five lectures a week for three weeks. Designed for graduate students.

**361-62 Pharmacological Research** The Staff

Primarily for those properly qualified graduate and medical students seeking careers in pharmacology. Hours and credits to be arranged.

**363-64 Pharmacology Seminar (1-1)** The Staff

Recent advances in pharmacology. For those interested in pharmacological research. Two hours a week.

**369-70 Clinical Pharmacology** The Staff

Discussions of the pharmacological basis of therapeutics. One hour a week.

**479-80 Special Methods in Research** The Staff

A course to familiarize the student with advanced chemical and physiological methods employed in pharmacological investigations. Hours and credits to be arranged.

## PHYSICAL MEDICINE

Charles Samuel Wise, B.S., M.D., *Associate Professor of Physical Medicine*

—, *Associate in Physical Medicine*

250 *Elements of Physical Medicine*

The Staff

Lectures and demonstration of the various tests and measurements employed in evaluation of physical disability. Emphasis is placed on normal and abnormal peripheral nerve testing (reflexes, sensation, muscle reaction, joint range) and other physical disability measurements.

351-52 *Advanced Physical Medicine*

The Staff

Lectures and demonstration concerning the various techniques, clinical applications of physical medicine, and rehabilitation to be integrated with the teaching of the associated medical and surgical specialties.

467-68 *Clinical Studies*

The Staff

Clinical teaching and demonstration at the University Hospital.

485 *Research*

The Staff

Hours to be arranged

## PHYSIOLOGY

**Errett Cyril Albritton, A.B., M.D.,** *Professor of Physiology, Executive Officer*

**Chester Elwood Leese, Ph.D.,** *Professor of Physiology*

**Abraham Dury, Ph.D.,** *Assistant Professor of Physiology*

**Hyman Erwin Steinman, M.D.,** *Teaching Fellow in Physiology*

**115 *Physiology* (3)**

Leese and Staff

Lectures for academic students covering the fundamentals of Physiology in its various subdivisions. Prerequisite: one year of general science or one term of a biological science. Section A: Tues., Thurs., and Sat., 9:15 A.M.; section B: Tues. and Thurs., 5:15 to 7:25 P.M.

**117 *Experimental Physiology* (1)**

Dury and Staff

Laboratory exercise in the fundamentals of physiology for academic students. Prerequisite: or concurrent registration, Physiology 115 or the equivalent. Material fee, \$12. Sat., 1:15 A.M. to 1:00 P.M.

**120 *Physiology of Endocrine Activity* (2)**

Albritton

The circulatory, metabolic, reproductive, growth, and other adaptations, immediate and long term, maintaining and affecting endocrine activity. May be taken for two credits with additional work. Prerequisite: Physiology 115 or the equivalent. Tues. and Thurs., 5:15 P.M.

**130 *The Psycho-physiology of Personality* (2)**

Leese

Lectures on the genesis and expression of personality, with emphasis on the physiological approach. Prerequisite: Physiology 115 or the equivalent and general psychology. Tues. and Thurs., 6:15 P.M.

**131 *Advanced Physiology of Circulation and Respiration* (2)**

Albritton and Staff

Lectures on blood, heart, circulation, respiration, and acid-base balance. Two hours a week, to be arranged.

**134 *Advanced Physiology of Nutrition, Metabolism, and Excretion* (2)**

Parrish and Staff

Lectures on nutrition, digestion, metabolism, excretion, temperature regulation, and water balance. Two hours a week, to be arranged.

**136 *Advanced Physiology of the Endocrine Glands and Reproduction* (1)**

Dury and Staff

Lectures on ductless glands, hormones, humoral agents, and reproduction. One hour a week, to be arranged.

- 138 *Advanced Physiology of the Neuro-Muscular System* (2) Leese and Staff  
Lectures on sensory reception, central nervous processes, somatic and visceral motor activity, and the behavior of smooth and striped muscle. Two hours a week, to be arranged.
- 142 *Advanced Experimental Physiology* (3) The Staff  
Laboratory work only. Coordinated with the lectures in course 131-138. Nine hours a week, to be arranged.
- 149-52 *Advanced Physiology* The Staff  
One hundred physiological lectures and one hundred fifteen laboratory hours devoted to the major divisions of the subject. For Methods, Statistics, Micro. Work, and Phys. 12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-1221-1222-1223-1224-1225-1226-1227-1228-1229-1230-1231-1232-1233-1234-1235-1236-1237-1238-1239-1240-1241-1242-1243-1244-1245-1246-1247-1248-1249-1250-1251-1252-1253-1254-1255-1256-1257-1258-1259-1260-1261-1262-1263-1264-1265-1266-1267-1268-1269-1270-1271-1272-1273-1274-1275-1276-1277-1278-1279-1280-1281-1282-1283-1284-1285-1286-1287-1288-1289-1290-1291-1292-1293-1294-1295-1296-1297-1298-1299-1300-1301-1302-1303-1304-1305-1306-1307-1308-1309-1310-1311-1312-1313-1314-1315-1316-1317-1318-1319-1320-1321-1322-1323-1324-1325-1326-1327-1328-1329-1330-1331-1332-1333-1334-1335-1336-1337-1338-1339-1340-1341-1342-1343-1344-1345-1346-1347-1348-1349-1350-1351-1352-1353-1354-1355-1356-1357-1358-1359-1360-1361-1362-1363-1364-1365-1366-1367-1368-1369-1370-1371-1372-1373-1374-1375-1376-1377-1378-1379-1380-1381-1382-1383-1384-1385-1386-1387-1388-1389-1390-1391-1392-1393-1394-1395-1396-1397-1398-1399-1400-1401-1402-1403-1404-1405-1406-1407-1408-1409-1410-1411-1412-1413-1414-1415-1416-1417-1418-1419-1420-1421-1422-1423-1424-1425-1426-1427-1428-1429-1430-1431-1432-1433-1434-1435-1436-1437-1438-1439-1440-1441-1442-1443-1444-1445-1446-1447-1448-1449-1450-1451-1452-1453-1454-1455-1456-1457-1458-1459-1460-1461-1462-1463-1464-1465-1466-1467-1468-1469-1470-1471-1472-1473-1474-1475-1476-1477-1478-1479-1480-1481-1482-1483-1484-1485-1486-1487-1488-1489-1490-1491-1492-1493-1494-1495-1496-1497-1498-1499-1500-1501-1502-1503-1504-1505-1506-1507-1508-1509-1510-1511-1512-1513-1514-1515-1516-1517-1518-1519-1520-1521-1522-1523-1524-1525-1526-1527-1528-1529-1530-1531-1532-1533-1534-1535-1536-1537-1538-1539-1540-1541-1542-1543-1544-1545-1546-1547-1548-1549-1550-1551-1552-1553-1554-1555-1556-1557-1558-1559-1560-1561-1562-1563-1564-1565-1566-1567-1568-1569-1570-1571-1572-1573-1574-1575-1576-1577-1578-1579-1580-1581-1582-1583-1584-1585-1586-1587-1588-1589-1590-1591-1592-1593-1594-1595-1596-1597-1598-1599-1600-1601-1602-1603-1604-1605-1606-1607-1608-1609-1610-1611-1612-1613-1614-1615-1616-1617-1618-1619-1620-1621-1622-1623-1624-1625-1626-1627-1628-1629-1630-1631-1632-1633-1634-1635-1636-1637-1638-1639-1640-1641-1642-1643-1644-1645-1646-1647-1648-1649-1650-1651-1652-1653-1654-1655-1656-1657-1658-1659-1660-1661-1662-1663-1664-1665-1666-1667-1668-1669-1670-1671-1672-1673-1674-1675-1676-1677-1678-1679-1680-1681-1682-1683-1684-1685-1686-1687-1688-1689-1690-1691-1692-1693-1694-1695-1696-1697-1698-1699-1700-1701-1702-1703-1704-1705-1706-1707-1708-1709-1710-1711-1712-1713-1714-1715-1716-1717-1718-1719-1720-1721-1722-1723-1724-1725-1726-1727-1728-1729-1730-1731-1732-1733-1734-1735-1736-1737-1738-1739-1740-1741-1742-1743-1744-1745-1746-1747-1748-1749-1750-1751-1752-1753-1754-1755-1756-1757-1758-1759-1760-1761-1762-1763-1764-1765-1766-1767-1768-1769-1770-1771-1772-1773-1774-1775-1776-1777-1778-1779-1780-1781-1782-1783-1784-1785-1786-1787-1788-1789-1790-1791-1792-1793-1794-1795-1796-1797-1798-1799-1800-1801-1802-1803-1804-1805-1806-1807-1808-1809-1810-1811-1812-1813-1814-1815-1816-1817-1818-1819-1820-1821-1822-1823-1824-1825-1826-1827-1828-1829-1830-1831-1832-1833-1834-1835-1836-1837-1838-1839-1840-1841-1842-1843-1844-1845-1846-1847-1848-1849-1850-1851-1852-1853-1854-1855-1856-1857-1858-1859-1860-1861-1862-1863-1864-1865-1866-1867-1868-1869-1870-1871-1872-1873-1874-1875-1876-1877-1878-1879-1880-1881-1882-1883-1884-1885-1886-1887-1888-1889-1890-1891-1892-1893-1894-1895-1896-1897-1898-1899-1900-1901-1902-1903-1904-1905-1906-1907-1908-1909-1910-1911-1912-1913-1914-1915-1916-1917-1918-1919-1920-1921-1922-1923-1924-1925-1926-1927-1928-1929-1930-1931-1932-1933-1934-1935-1936-1937-1938-1939-1940-1941-1942-1943-1944-1945-1946-1947-1948-1949-1950-1951-1952-1953-1954-1955-1956-1957-1958-1959-1960-1961-1962-1963-1964-1965-1966-1967-1968-1969-1970-1971-1972-1973-1974-1975-1976-1977-1978-1979-1980-1981-1982-1983-1984-1985-1986-1987-1988-1989-1990-1991-1992-1993-1994-1995-1996-1997-1998-1999-2000-2001-2002-2003-2004-2005-2006-2007-2008-2009-2010-2011-2012-2013-2014-2015-2016-2017-2018-2019-2020-2021-2022-2023-2024-2025-2026-2027-2028-2029-2030-2031-2032-2033-2034-2035-2036-2037-2038-2039-2040-2041-2042-2043-2044-2045-2046-2047-2048-2049-2050-2051-2052-2053-2054-2055-2056-2057-2058-2059-2060-2061-2062-2063-2064-2065-2066-2067-2068-2069-2070-2071-2072-2073-2074-2075-2076-2077-2078-2079-2080-2081-2082-2083-2084-2085-2086-2087-2088-2089-2090-2091-2092-2093-2094-2095-2096-2097-2098-2099-2100-2101-2102-2103-2104-2105-2106-2107-2108-2109-2110-2111-2112-2113-2114-2115-2116-2117-2118-2119-2120-2121-2122-2123-2124-2125-2126-2127-2128-2129-2130-2131-2132-2133-2134-2135-2136-2137-2138-2139-2140-2141-2142-2143-2144-2145-2146-2147-2148-2149-2150-2151-2152-2153-2154-2155-2156-2157-2158-2159-2160-2161-2162-2163-2164-2165-2166-2167-2168-2169-2170-2171-2172-2173-2174-2175-2176-2177-2178-2179-2180-2181-2182-2183-2184-2185-2186-2187-2188-2189-2190-2191-2192-2193-2194-2195-2196-2197-2198-2199-2200-2201-2202-2203-2204-2205-2206-2207-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2480-2481-2482-2483-2484-2485-2486-2487-2488-2489-2490-2491-2492-2493-2494-2495-2496-2497-2498-2499-2500-2501-2502-2503-2504-2505-2506-2507-2508-2509-2510-2511-2512-2513-2514-2515-2516-2517-2518-2519-2520-2521-2522-2523-2524-2525-2526-2527-2528-2529-2530-2531-2532-2533-2534-2535-2536-2537-2538-2539-2540-2541-2542-2543-2544-2545-2546-2547-2548-2549-2550-2551-2552-2553-2554-2555-2556-2557-2558-2559-2560-2561-2562-2563-2564-2565-2566-2567-2568-2569-2570-2571-2572-2573-2574-2575-2576-2577-2578-2579-2580-2581-2582-2583-2584-2585-2586-2587-2588-2589-2590-2591-2592-2593-2594-2595-2596-2597-2598-2599-2600-2601-2602-2603-2604-2605-2606-2607-2608-2609-2610-2611-2612-2613-2614-2615-2616-2617-2618-2619-2620-2621-2622-2623-2624-2625-2626-2627-2628-2629-2630-2631-2632-2633-2634-2635-2636-2637-2638-2639-2640-2641-2642-2643-2644-2645-2646-2647-2648-26



## PSYCHIATRY

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Henry Prather Laughlin, B.S., M.D., *Associate in Psychiatry*

Marshall deGraffenried Ruffin, B.S., M.D., *Associate in Psychiatry*

William Green Cushard, M.D., *Clinical Instructor in Psychiatry*

### 136 *Introductory Medical Psychology* Overholser and Staff

Theoretical and practical aspects of the constitution, character, and personality as related to medicine, psychological features in various distinct types of character development and their wayward behavior. One hour a week.

### 278 *Psychopathology* H. P.

Manifestations and understanding of various abnormal mental mechanisms and reaction types, illustrated with similar case material, and treated by history or management of psychopathology. One hour a week.

### 306 *Psychiatry* Overholser

Major psychoses, illustrated by the presentation of clinical material and utilized for the purpose of explaining the functioning of psychomotor mechanisms involved. St. Elizabeth's Hospital. One hour a week.

### 308 *Psychosomatic Aspects of General Medicine* Katzenelbogen

Somatic disorders of functional origin versus organic structural disorders. The role of personality reactions in somatic disorders (illustrative cases). St. Elizabeth's Hospital. One hour a week.

### 427-28 *Psychological Techniques in Psychiatric Practice* Kendig

Discussion of psychological concepts and tools available for determination of intellectual level, personality structure, functional impairment, and organic deterioration. One hour a week for four weeks.

473-74 *Ward Work*

The Staff

Personal mental examinations and formal written report of the examination of the various types of psychoses, followed by a review of the cases with an instructor. St. Elizabeths Hospital. Two hours a week.

475 *Psychoneurosis*

Duval

The clinical aspects, the etiology, the psychopathology, and the treatment of the various psychoneuroses. One hour a week for twelve weeks.

## RADIOLOGY

**William Stanbro, M.D.,** *Associate Professor of Radiology, Executive Officer*

**Peter Diacoumis Comanduras, B.S., M.D., M.S.,** *Assistant Clinical Professor of Radiology*

- |        |  |           |
|--------|--|-----------|
| 213    | <i>Basic Radiology</i><br>Orientation lectures in X-ray physics  | The Staff |
| 341-42 | <i>Radiological Diagnosis</i><br>Lectures in conjunction with the course in Physical Diagnosis                               | The Staff |
| 358    | <i>Advanced Radiological Diagnosis</i><br>Lectures and discussions   | The Staff |
| 449    | <i>Clinical Studies</i><br>Students assigned in rotation on a full-time basis for a specified period to the X-ray Department | The Staff |
| 478    | <i>Research</i><br>Hours to be arranged  | The Staff |

## SURGERY

- Brian Blades, A.B., M.D., *Professor of Surgery, Executive Officer*  
 Daniel LeRay Borden, A.M., M.D., *Clinical Professor of Surgery*  
 Paul Stirling Putzki, M.D., *Clinical Professor of Surgery*  
 Arch Lockhart Riddick, B.S., M.D., *Clinical Professor of Surgery*  
 William Berry Marbury, M.D., *Clinical Professor of Surgery*  
 Custis Lee Hall, M.D., *Clinical Professor of Surgery*  
 John Hugh Lyons, M.S., M.D., *Clinical Professor of Surgery*  
 Frank Errett Hamilton, A.B., M.D., M.S., *Adjunct Clinical Professor of Surgery*  
 Paul Budd Magnuson, M.D., *Adjunct Clinical Professor of Surgery*  
 Wallace Harry Graham, B.S., M.D., *Professorial Lecturer in Surgery*  
 Herbert Hermann Schoenfeld, M.D., *Associate Clinical Professor of Surgery*  
 William Warren Sager, M.S., M.D., *Associate Clinical Professor of Surgery*  
 Benjamin Franklin Dean, Jr., M.S., M.D., *Assistant Clinical Professor of Surgery*  
 Alec Horwitz, M.S., M.D., *Assistant Clinical Professor of Surgery*  
 William Stanley McCune, A.B., M.D., *Assistant Clinical Professor of Surgery*  
 Vincent Michael Iovine, B.S., M.D., *Assistant Clinical Professor of Surgery*  
 Carl Berg, M.D., *Assistant Clinical Professor of Orthopedic Surgery*  
 Calvin Trexler Klopp, A.B., M.D., *Assistant Clinical Professor of Surgery*  
 Julius Salem Neviaser, A.B., M.D., *Assistant Clinical Professor of Orthopedic Surgery*  
 Jerome Blaine Harrell, M.D., *Assistant Clinical Professor of Surgery*  
 Leonard Theodore Peterson, A.B., B.S., M.D., *Assistant Clinical Professor of Orthopedic Surgery*  
 Richard Knight Thompson, D.D.S., *Associate in Dental Surgery*  
 William Ross Morris, M.D., *Associate in Surgery*  
 Philip Pelland, M.D., *Associate in Surgery*  
 Harold Walter Krogh, D.D.S., *Associate in Dental Surgery*  
 Jacob Joseph Weinstein, B.S., Phar.G., M.D., *Associate in Surgery*  
 William Carey Meloy, M.D., M.S. in Med., *Associate in Surgery*  
 Edward Alexander Catritz, M.D., *Associate in Surgery*  
 Edward James Beattie, M.D., *Associate in Surgery*  
 Hazen Eugene Cole, B.S., M.D., *Clinical Instructor in Surgery*  
 Crenshaw Douglas Briggs, B.S., M.D., *Clinical Instructor in Surgery*



William Wiley Chase, A.B., M.D., *Clinical Instructor in Surgery*  
 Arthur James Mourot, B.S., M.D., *Clinical Instructor in Surgery*  
 Joseph Francis Conlon, D.D.S., *Clinical Instructor in Dental Surgery*  
 Otto Anderson Engh, A.B., M.D., *Clinical Instructor in Surgery*  
 Duane Case Richtmeyer, A.B., M.D., *Clinical Instructor in Surgery*  
 Richard Lee Jackson, M.D., *Clinical Instructor in Surgery*  
 Leon Gerber, M.D., *Clinical Instructor in Surgery*  
 Walter Henry Gerwig, Jr., A.B., M.D., *Clinical Instructor in Surgery*  
 Thomas Bradley, A.B., M.D., *Clinical Instructor in Surgery*  
 Lloyd Burk, Jr., M.D., *Clinical Instructor in Surgery*  
 Joe Milton Van Hoy, A.B., M.D., *Clinical Instructor in Surgery*  
 Austin Bertram Rohrbaugh, Jr., M.D., *Clinical Instructor in Orthopedic Surgery*

279-80 *General Surgery*

Dean, Harrell

Course of lectures and recitations covering surgical diseases of the neck and chest, hernia, amputations, and pre- and post-operative treatment. One hour a week for twenty-eight weeks.

283 *Principles of Surgery*

The Staff

A clinical and laboratory course covering the fundamental details of surgery, including studies in inflammation, wound healing, etc. One hour laboratory and one hour in the clinics.

371-72 *General Surgery*

Richtmeyer, Riddick

Course of lectures and recitations covering surgery as applied to the neck, thorax, gastrointestinal tract, and the bones and skeletal muscles. One hour a week.

373-74 *Ward Walks*

The Staff

Well-organized group ward rounds are made with the visiting physicians and their respective staffs in the course of their work in Gallinger Hospital.

375-76 *Surgical Clinic*

Blades

Clinical teaching and demonstrations on the care of the various surgical diseases, with special emphasis on the pre- and post-operative management. Gallinger Hospital.

379-80 *Surgical Staff Conference*

The Staff

Gallinger Hospital. Weekly.

381-82 *Clinical Clerkship*

The Staff

The student is assigned and required to work up thoroughly the cases for diagnosis and treatment. Gallinger Hospital.

473-74 *Clinical Clerkships*

The Staff

Available at the University Hospital, Walter Reed General Hospital, and Mt. Alto Hospital.

- 478 *Orthopedics* Hall  
Etiology, pathology, symptomatology, and treatment of congenital and acquired diseases of the bones and joints, and the clinical instruction in treatment and in the use of appliances for the correction of deformities. One hour a week.
- 481 *General Surgery* Blades  
One hour a week.
- 483-84 *Dispensary Clinic* The Staff  
Dispensary instruction in the principles and practice of surgery. Instruction of small groups is given in general surgery and the specialties, including anesthesia, neurosurgery, orthopedics, proctology, and oral surgery. University and Emergency hospitals.
- 485-86 *Special Problems in Surgery* Riddick, Dean  
General surgical diagnosis, with special emphasis on the diagnosis and differential diagnosis of surgical diseases and post-operative complications. One hour a week.
- 488 *Surgical Clinic* The Staff  
Demonstration to the entire class of the various surgical diseases. One hour a week.
- 489 *Surgical Anatomy* Horwitz  
One hour a week.
- 491-92 *Surgical Pathology* Blades, Klopp  
The senior class in groups of ten may attend the meeting of the Junior House at the Surg. at Walter Reed Hospital and the Warwick Clinic. Patients with all types of neoplasms are demonstrated and gross and microscopic views of various neoplasms are shown. Three hours a week.
- 493-94 *Surgical Diseases of the Chest (elective)* Blades and Staff  
Patients with various diseases of the chest, including diseases of the lung, mediastinal, and esophagus are presented. The cases are followed from week to week and operative specimens and microscopic sections are demonstrated. Walter Reed Hospital. Three hours a week.

## UROLOGY

Frederick A. Reuter, M.D., *Professor of Urology, Executive Officer*  
 Thomas Carlton Thompson, B.S., M.D., *Clinical Professor of Urology*  
 Gilbert Ottenberg, A.M., M.D., *Associate in Urology*  
 William Dabney Jarman, B.S., M.D., *Clinical Instructor in Urology*  
 Edward Egner Ferguson, M.D., *Clinical Instructor in Urology*  
 Leon Richard Culbertson, B.S., M.D., *Clinical Instructor in Urology*

- 395-96 *Clinics* The Staff  
 Clinical teaching and demonstrations on the care of urological cases with special emphasis on the pre- and post-operative management. Operative clinics and clinical teaching. Gillingham Hospital.
- 491-92 *Urology* Reuter and Staff  
 Lectures covering the entire field of urology, including diagnosis, treatment, and morbid pathology. One hour a week.
- 495-96 *Clinics* Reuter and Staff  
 Clinical demonstrations and teaching in the dispensary, with special attention given to diagnostic procedures. Emergency and University hospitals. One part of each section daily.

# DEGREES CONFERRED

May 28, 1947

## DOCTOR OF MEDICINE

Alban, Emil Linn, Jr. Altman, Seymour Lewis AB 1944, The George Washington University	Conn. N.Y.	Harris, Ernest Emery, Jr. Hecht, Moses Bernard AB 1943, The George Washington University	MD N.Y.
Anderson, Donald Hood BS 1944, Birmingham Southern College	Ala.	Holmes, Robert M., Jr. AB 1943, University of California at Los Angeles	Calif.
Bauman, Frederick Charles Bass, Robert F., Jr. Bass, Thomas P. Bass, Thomas P. (With distinction)	Pa. Wash. D.C. Md.	Hoots, Kenneth Edward AB 1943, University of Southern California	Calif.
Bateson, Joseph Robert III Beck, Walter Charles (With distinction)	D.C. Va.	Hunter, Joseph Eugene Landon, J. Monte AB 1943, Stanford University	Ill. Conn.
Berry, James Frederick AB 1943, Washington and Lee University	Va.	Kaplan, Allen, Frank, Jr. AB 1944, The George Washington University	D.C.
Berry, Chester Donald BS 1943, Mount Union College Bose, Louis Vernon (With distinction)	Ohio Md.	Kaplan, Karl Henry BS 1943, University of Washington Lamb, Robert Ernest Mandell, Steve R. Mark, Harry William AB 1943, Washington and Lee University	Wash. Conn. Calif. Md.
Bose, Joseph George AB 1942, University of Wisconsin	Wis.	Mann, James Packard (With distinction)	D.C.
Brink, Howard Thomas BS 1944, The George Washington University	D.C.	Martin, Robert Howard McAuley, William Bernard AB 1944, The George Washington University	Pa. Maine
Chas. William Chesser, Martin Louise AB 1944, The George Washington University	D.C. D.C.	McGarry, Edward Clifford AB 1945, The George Washington University	N.J.
Chesser, Robert Voltaire Collins, George Howard AB 1945, The George Washington University	D.C. Calif.	McShane-Wyom, Robert BS 1944, Harvard College McIntyre, Charles Louis BS 1945, Bucknell University	Pa. Pa.
Carter, Walter Homer Devane, Charles Joseph, Jr. AB 1943, Washington and Lee University	Canada Va.	Mohr, Jack William AB 1945, Stanford University	Calif.
Davis, Alvin Paul Larkin, Carl Adam Dennis, Lila Frances BS 1944, Catholic University of America	Calif. Calif. D.C.	Mohr, Robert Lawrence BS 1944, Rutgers University Mull, Stephen Roy, Jr. Munoz, Gary AB 1945, Lyndonville College	N.J. D.C. D.C.
Edwards, Harry BS 1945, University of Mississippi	Miss.	Meyer, Helen Sherman BS 1945, The George Washington University	Calif.
Evans, Bruce A. New BS 1943, Idaho State College	Idaho	Meyer, Robert C. AB 1944, Princeton University	Md.
Felt, Donald Neil BS 1945, University of South Dakota	S.D.	Newman, Joseph Kenneth AB 1944, The George Washington University	Ohio
Fein, Chaim William BS 1943, Mount Union College Fischer, Philip Louis Gardner, Frederic Stralhorn Gardner, Hubert C., Jr. Greene, Lester Benjamin BS 1943, University of Idaho Hall, William Lester AB 1943, College of Wooster	Ohio D.C. N.C. Idaho Calif. Ohio	O'Neil, Edward BS 1945, University of Puerto Rico Owen, William H. BS 1943, Catholic University of America Parker, William BS 1943, Western Reserve University	P.R. D.C. Ohio



Prochard, Robert Williams	N.Y.	Stephens, Wade Naudier	D.C.
Rawlings, Murray Stanley	Md.	Stevens, Charles David	Pa.
A.B. 1927, University of Washington		B.M.S. 1927, M.M.S. 1931, Northwestern University	
Satzmeyer, James Allen	Calif.	Stone, William Lester III	Va.
Schaefer, Herman Alex	D.C.	A.B. 1943, Adelphi College	
A.B. 1944, The George Washington University		Storley, Robert George	Wash.
Stellinger, Frederick William	Md.	A.B. 1944, Stanford University	
Stev, Luc Lewis	D.C.	Strong, William Robert	Ind.
B.S. 1943, Villanova College		Styne, Robert H. Jones, Jr.	Wash.
Sullivan, Maurice Arthur	D.C.	B.S. 1943, University of Wisconsin	
A.B. 1944, The George Washington University		Went, Maurice Philip	Md.
Sizes, James Glenzer	Va.	Weston, John Henry	Ariz.
Spiegel, Oscar Benjamin	Univ.	B.S. 1945, University of Arizona	
B.S. 1945, United States Agricultural College		Wheeler, Robert Lee	Ind.
		B.S. 1943, University of Maryland	
		Zander, Helmut de laey	D.C.

# STUDENTS REGISTERED IN THE SCHOOL OF MEDICINE

1947-48

A			
Abraham, Abe Samuel (II)		Bowler, John Andrew, Jr. (I)	D.C.
B.S. 1948, Westminster College		Bowst, Thompson Harmon (III)	D.C.
A.S. 1948, Joseph Lawrence (IV)		Bayer, John White (II)	Md.
Amley, Harry Jerome, Jr. (II)		Bradley, John Graver (I)	Nev.
A.B. 1946, University of Southern		Brady, Luther Weston, Jr. (IV)	Md.
California		A.B. 1946, The George Washington	
Archer, Benjamin Lester (IV)		University	
Arnold, McAlpin Hill (IV)		Brady, Neal Caldwell (I)	Calif.
A.B. 1944, The George Washington		B.S. 1947, Western Reserve University	
University		Brauner, Edgar Newlin, Jr. (I)	Md.
Artesian, Joseph Lave (III)		Breadling, Robert Barton (I)	Ky.
A.B. 1947, University of Richmond		B.S. 1944, University of Kentucky	
Avard, A. J. (II)		Bristow, John Wesley (II)	Calif.
B.S. 1946, University of Puerto Rico		Brockbank, Walter Reed (III)	Calif.
Avery, John Lawrence (II)		B.S. 1946, Brigham Young University	
B.S. 1947, University of Maryland		Brockbank, Walter Evans (IV)	Utah
M.S. 1948, The George Washington		Brown, Harrison Martin, Jr. (II)	Md.
University		B.S. 1946, Western College, Ill.	
Aye, Ralph Graham (II)		Brown, Clayton Ray (II)	Pa.
M.S. 1944, Northwestern University		B.S. 1946, University of Pittsburgh	
B		Bryce, James Crawford (I)	D.C.
Baird, George Dean (III)		Buckler, Arthur Stanley (IV)	N.I.
B.S. 1944, University of Oregon		Burton, James Patrick, Jr. (III)	D.C.
Baker, Dorothy Anne (I)		C	
A.B. 1944, Williams College		Campbell, Charles John (IV)	Pa.
Baker, Edward Robert, Jr. (IV)		Cannon, Raymond Eugene (II)	Md.
A.B. 1948, Williams College		A.B. 1947, The George Washington	
Baker, Philip Thomas (III)		University	
A.B. 1948, The George Washington		Chapman, James Eliot (III)	W.V.
University		Clark, Homer (IV)	Utah
Baker, Raymond Isaac (IV)		B.S. 1946, Brigham Young University	
A.B. 1948, The George Washington		Chaff, Leonard Leighton (III)	D.C.
University		Cohen, George Lee (II)	D.C.
Baldwin, Timothy George (II)		Cohen, Jacob Ray (III)	D.C.
B.S. 1947, Pennsylvania State College		B.S. 1949, The George Washington	
Baker, Walter John (I)		University	
B.S. 1946, State Teachers College,		Cole, Ralph John (I)	D.C.
East Stroudsburg, Pa.		Cornett, Andrew Mervin (II)	D.C.
Baker, Robert Roll (IV)		A.B. 1946, Trinity College	
A.B. 1944, Williams College		Cornett, Joseph Daniel (III)	D.C.
Baker, Morris Eugene (III)		Coughlin, Gerald Myrle (I)	Calif.
B.S. 1946, Franklin and Marshall		Cook, Charles Burton (IV)	Va.
College		B.S. 1946, Hampton-Sydney College	
Baker, Robert H. (II)		Cramer, Charles David (I)	D.C.
Baker, Alice (III)		Cramer, William Hoffman (III)	Ohio
A.B. 1946, Smith College		A.B. 1946, Western Reserve University	
Baker, Norman S. (III)		Casperman, Robert R. (III)	D.C.
A.B. 1948, Mercer College		A.B. 1946, The George Washington	
Baker, Thomas Curtis (I)		University	
B.S. 1947, University of Michigan		Carter, McKee Phelps (I)	D.C.
B.S. 1942, North Carolina State		Cassell, Walter Franklin, Jr. (IV)	Md.
College		B.S. 1948, University of Mississippi	
Baker, Mervin (III)		Camp, William Earl (III)	Ohio
A.B. 1947, The George Washington		Cassell, Jack (I)	Md.
University		B.S. 1947, The George Washington	
Baldwin, Mervin (III)		University	
A.B. 1947, The George Washington		Carlson, Joseph Charles (IV)	Calif.
University		A.B. 1944, Catholic University of	
		America	
		Carter, James Leroy (III)	W.V.

D

Daniel, Newel George, Jr. (IV)  
Dartmouth College  
A.B. 1946, Dartmouth College  
Daly, Charles Edward (II)  
Daly, Richard Francis (IV)  
Dallmann, Robert Eugene (III)  
Dawson, James Carwin (I)  
D.B.S. 1941, Mount Union College  
DeBenedictis, Anthony Dominico (II)  
D.B.S. 1944, Villanova College  
Dentler, Patrick Chester, Jr. (IV)  
Ditzler, Marshall Ernest (III)  
D.B.S. 1948, Lebanon Valley College  
Dixon, William Martin (III)  
Dixie, Thomas Edward (IV)  
D.B.S. 1941, Stanford University  
Dolan, Stephen Mark (II)  
Dolan, Maryann Elizabeth (I)  
Dougherty, Kenneth Earl (III)  
Dougherty, Seymour (I)  
Dowdy, Anne Catherine (III)  
D.B.S. 1942, The George Washington University  
A.M. 1944, Colorado College

Utah  
Md.

Va.

N.Y.

Ohio

Va.

N.Y.

Calif.

Pa.

Md.

Calif.

Md.

D.C.

Md.

N.Y.

Calif.

E

Elder, Martin P. (II)  
E.B.S. 1947, Yale University  
Ellis, Joseph Howard, Jr. (IV)  
Ellis, Carl Lane (IV)  
E.B.S. 1947, Stanford University  
Ellis, Carl Lane (IV)  
Ellis, James Oswald (III)  
E.B.S. 1949, Washington College  
Ellis, Harold Monroe (III)  
Ellis, Robert Lytle (II)  
E.B.S. 1947, Harvard (IV)  
Ellis, Joseph (III)  
Ellis, Joseph (III)  
E.B.S. 1947, Mount Union College  
Everling, Charles Irving (III)

D.C.

Va.

Calif.

Wash.

Calif.

Va.

Va.

Md.

D.C.

N.Y.

W.Va.

N.Y.

F

Fab, Marie Nestor (II)  
Fady, Jack (I)  
F.B.S. 1947, Birmingham Southern College  
Fager, Ronald Albert (I)  
Fain, George Everett (II)  
F.B.S. 1941, Loyola College  
Fain, Thomas Paul (IV)  
F.B.S. 1945, The George Washington University  
Fain, Peter Roy (IV)  
F.B.S. 1944, The George Washington University  
Fain, Robert Russell (III)  
Fain, Thomas (II)  
F.B.S. 1948, University of Missouri

Pa.

Ma.

Calif.

Md.

D.C.

Calif.

Pa.

D.C.

Va.

G

Galante, James Harper Paul (II)  
G.B.S. 1947, University of Virginia  
Galen, John William (II)  
Gallen, Harry Carl (II)  
G.B.S. 1944, Mount Union College  
Gallen, Albert Bernard (I)  
Gallen, James Wallace (II)  
G.B.S. 1944, Hampton Sydney College

D.C.

Calif.

Calif.

Calif.

Calif.

Va.

Gillette, Warren (II)  
B.S. 1942, California Institute of Technology  
Gillman, Robert David (II)  
G.B.S. 1945, Yale University  
Gillman, Robert David (II)  
G.B.S. 1945, Columbia University  
Glen, Elizabeth Myers (I)  
Glen, Donald Henry, Jr. (IV)  
B.S. 1945, Yale University  
Glover, Sarah Elizabeth (IV)  
Goldberg, James Lee (III)  
Good, Frederick Dale (IV)  
G.B.S. 1944, Oberlin University  
Goodman, Clifford James (I)  
B.S. 1947, The George Washington University  
Greaves, Keith Carpenter (I)  
B.S. 1947, University of Idaho  
Green, Jess Douglas, Jr. (II)  
A.B. 1944, University of Kansas City  
Green, Robert Leonard (III)  
Green, Richard (II)  
B.S. 1944, Indiana State University  
M.S. 1946, The George Washington University  
Gumpel, Roy Carter (III)  
Gutrie, Eugene Harting (I)

D.C.

D.C.

D.C.

W.Va.

D.C.

Va.

Md.

Ohio

Ariz.

Ind.

Va.

Ind.

D.C.

D.C.

N.Y.

Md.

H

Hall, Jay, William Ross, Jr. (IV)  
H.B.S. 1947, Sacramento College  
Haley, Alton Walter (II)  
H.B.S. 1947, Transylvania University  
Hammill, Ernest Graham (IV)  
H.B.S. 1946, The George Washington University  
Hansen, Albert F. Swartz (II)  
Hans, William McGowan (III)  
B.S. 1947, University of Oregon  
Hanson, Richard A. (IV)  
Hanson, John Nathan (II)  
B.S. 1947, University of New Hampshire  
Hart, Allen Lee (II)  
Hart, Andrew Edmund (III)  
Hart, Robert Harrison (III)  
Hart, Richard Walter (IV)  
A.B. 1945, Antioch College  
Hartman, James Kline (IV)  
Hartman, Donald Lawrence (II)  
A.B. 1944, Notre Dame College, ME  
A.M. 1947, California University of Health Sciences  
Hartman, Timothy Reed (I)  
A.B. 1947, Stanford University  
Hart, Henry Louis (II)  
B.S. 1947, Loyola University  
Hart, Robert Leonard (I)  
Hart, Donald Lee (II)  
Hart, Francis Thomas, Jr. (II)  
B.S. 1946, College of William and Mary  
Hart, James Bruce, Jr. (II)  
B.S. 1947, University of Maryland  
Hyle, Ernest Lafayette (I)

D.C.

D.C.

Va.

D.C.

D.C.

Wash.

D.C.

Mass.

Pa.

Tenn.

Calif.

N.J.

Calif.

Md.

Me.

Calif.

Pa.

Ala.

Mass.

D.C.

Va.

Me.

Calif.

I

LaFayette, Marshall H. (IV)  
A.B. 1944, The George Washington University  
Iampolsky, Alton Morris (II)

Va.

D.C.

R.I.

Levin, Robert Lawrence, Jr. (III)	Pa.	Magnus, John Lower (II)	Ohio
Levin, Thomas Ramsey, Jr. (IV)	Md.	Mahony, Thomas Patrick (III)	Md.
B.S. 1944, Franklin and Marshall College		Mahony, James Joseph (II)	D.C.
Levin, Howard Hamlin, Jr. (I)	D.C.	AB 1937, The George Washington University	
Joseph, Patrick (I)	D.C.	Mahony, Joseph Pearle (I)	Was.
B.S. 1945, University of Pittsburgh		B.S. 1942, University of Minnesota	
K		Mantley, Richard Green (I)	Ohio
Kay, Theodore (II)	Md.	Martens, Matthew L. (IV)	N.I.
Keller, George Adolph, Jr. (III)	Md.	AB 1945, Columbia University	
B.S. 1946, Harvard University		Martens, Dirk Katerina (I)	D.C.
Kennedy, John Moran (IV)	Ohio	AB 1944, University of Southern California	
AB 1945, Washington University		Martin, Don Harrington (II)	Md.
Kerr, Stephen Gordon, Jr. (II)	Va.	Mattick, Thomas Emmet, Jr. (I)	D.C.
Kerr, Arthur B. (III)	Md.	McConnell, James Robert (I)	D.C.
AB 1945, Franklin and Marshall College		McConnell, Mary Helen (II)	D.C.
AB 1945, Columbia University		AB 1946, The George Washington University	
Keshishian, John Mark (II)	D.C.	McNee, Victor Kellie (I)	D.C.
Kester, Barry Gordon (IV)	D.C.	Melby, Conrad Plannery (IV)	D.C.
Kilgus, Henry Jay (IV)	Pa.	AB 1945, The George Washington University	
Kilpatrick, John Thomas (III)	Ohio	McKenna, William Progress (II)	D.C.
B.S. 1943, University of California		AB 1943, Washington and Lee University	
Kilpatrick, Howard Wilson (IV)	D.C.	MW 1943, Joseph Russell (I)	D.C.
K	Was.	Morgan, Joseph Francis (II)	Va.
AB 1945, Washington University		Morgan, Arnold Hugh (III)	D.C.
Kirk, Raymond Russ (I)	Ohio	Morgan, Raymond (M. C.) (III)	Was.
Kissel, William James, Jr. (IV)	Pa.	Morris, Louis Richard Arthur (IV)	P.R.
B.S. 1945, University of Florida		Morris, Frank Nelson, Jr. (IV)	D.C.
Kissel, Robert Gordon (III)	D.C.	B.S. 1944, The George Washington University	
AB 1945, The George Washington University		Muller, George William (I)	Was.
Kissel, Robert (II)	Va.	Muller, Roy Lambert (III)	Va.
Kissel, Robert Lawrence (I)	Va.	B.S. 1945, Northeast Missouri State Teachers College	
AB 1945, Boston University		Murray, Bepreco Louis (II)	Pa.
L		B.S. 1945, University of Pittsburgh	
Lake, Carl Robert (III)	Md.	Murray, William Russell (I)	W.V.
Lake, John Paul (II)	Pa.	Murray, Douglas (III)	Va.
Lane, John Gordon, Jr. (III)	Pa.	Murray, Paul Joseph (III)	Ohio
Lane, Robert Henry (IV)	Ohio	AB 1945, University of California	
Lane, Robert Francis A. (III)	Pa.	Moss, Richard Henry, Jr. (II)	D.C.
Lane, Jay D. (I)	Pa.	N	
Lane, J. G. Ray William, Jr. (I)	D.C.	Nason, John Peter (I)	Md.
AB 1945, Rose Mary College		AB 1945, University of Minnesota	
Lane, Arthur George (III)	D.C.	Nelson, Berle (IV)	D.C.
Lane, Thomas Lee (IV)	Pa.	AB 1945, The George Washington University	
Lane, John (II)	W.V.	Nelson, Donald Sol (II)	D.C.
B.S. 1948, Marshall College		Nelson, Eugene (II)	Va.
Lane, Gilbert Stanley (III)	Ohio	B.S. 1945, University of Florida	
AB 1944, Stanford University		Nuttall, Robert Burt (IV)	Va.
Lane, Robert Y. (IV)	Hawaii	O	
AB 1944, Cornell University		O'Brien, Sverre Eric, Jr. (II)	D.C.
Lane, Charles (II)	D.C.	AB 1942, O'Connell College	
Lane, Charles Stuart (II)	N.I.	O'Connell, Roger William (I)	Mass.
AB 1944, Harvard College		O'Leary, Mary Jane (III)	D.C.
Lane, John (IV)	Mass.	AB 1945, The George Washington University	
AB 1945, B.S. 1945, University of Minnesota		O'Leary, Bruce Howard (IV)	D.C.
Lane, John (I)	Mass.	AB 1944, Miami University	
Lane, John (I)	W.V.	P	
B.S. 1945, University of Washington		Pearson, Matthew Brewster (II)	Va.
Lane, William Stewart (I)	D.C.	AB 1945, University of Virginia	
M			
Maclay, Marie Elizabeth (III)	D.C.		
B.S. 1944, The George Washington University			
Maclay, Ralph Bruce (II)	N.I.		
B.S. 1943, Rutgers University			



Pear, Bertram Lincoln (II)	D.C.	Shaffer, Michael Edmund (III)	Mass.
A.B. 1927, The George Washington University		B.S. 1929, Boston University	
Perry, James Brown (IV)	Va.	Shawmut, Kenneth Lee (IV)	Me.
Phelps, Joseph William (I)	N.Y.	B.S. 1921, University of Maryland	
Pinner, Robert James (III)	Mass.	Sagers, Richard Lawrence (III)	D.C.
Plunkett, Edmund Robert (IV)	D.C.	A.B. 1915, Columbia University	
B.S. 1944, College of William and Mary		See, Ronald Howard (III)	N.J.
Pollock, Jennie Lee (III)	D.C.	See, James A. (II)	N.Y.
B.S. 1925, Franklin and Marshall College		Seely, Norman R. (III)	Va.
Porter, Melvin A. (III)	Me.	Sellers, Robert Francis (II)	Mass.
Post, Lawrence A. (IV)	Wis.	Sewster, Edgar Sherman (IV)	Calif.
B.S. 1923, University of Wisconsin		A.B. 1944, State College	
Pratt, Eugene Carl (III)	N.Y.	Sewster, Fred Bruce (IV)	Calif.
Praeger, Elmer (I)	Me.	Speiser, Robert E. (IV)	D.C.
A.B. 1941, Columbia University		A.B. 1925, The George Washington University	
Prichard, John E. (IV)	D.C.	Stein, Harold Joseph (II)	N.Y.
		A.B. 1929, The George Washington University	
Q		Steffen, David Joseph (I)	Mass.
Quigley, Thomas Albert (IV)	Mass.	B.S. 1941, Vassar, N.Y. Scholastic	
A.B. 1942, University of Mississippi		Steele, Henry Wallace (III)	D.C.
		Stine, Karl L. (I)	D.C.
		Sutton, Walter James (II)	Ill.
		MS. 1941, University of Illinois	
R		F	
Ramirez, Luis Rival (I)	Panama	Taylor, Clayton B. (IV)	Calif.
B.S. 1927, The George Washington University		Thay, Benjamin Davis (IV)	D.C.
Reyes, Rod General (II)	Mexico	Thompson, Andrew Francis (II)	Me.
B.S. 1926, Georgetown University		Toussaint, John Francis (IV)	D.C.
Reine, Horace Elmer Jr. (II)	N.Y.	A.B. 1927, Lafayette College	
A.B. 1927, Georgetown University		Thompson, William Gordon Jr. (I)	Calif.
Ross, Ray Dora Jr. (II)	D.C.	A.B. 1927, University of Southern California	
Rosenberg, Jack Rudolph (II)	Me.	Thompson, William Gordon (IV)	D.C.
Rosenberg, John A. (III)	Calif.	A.B. 1940, Southern Young University	
Rosenberg, Joseph William (I)	Tex.	Thorn, Leonard (II)	Ill.
B.S. 1925, Agricultural and Mechanical College of Texas		Thompson, N. and Joseph Jr. (IV)	Ill.
Rosen, Eugene John (I)	D.C.	Thorn, Harold Stephen (III)	Me.
B.S. 1926, M.S. 1927, The George Washington University		Thompson, William Gordon (III)	N.J.
Ross, Herman Percy (II)	Wash.	Thompson, William Gordon (II)	D.C.
B.S. 1925, Washington State College		Todd, William Melvin (II)	D.C.
Ross, Robert (IV)	Calif.	A.B. 1941, Princeton University	
A.B. 1927, Princeton State College		Todd, Leonard Edgar (III)	Calif.
Ross, Harold Edgar (IV)	Me.		
B.S. 1921, University of South Texas		U	
Rosenberg, Norman Henry (II)	Calif.	Ulick, Isaac Leon (I)	Pa.
		B.S. 1921, M.S. 1927, Pennsylvania State College	
S		Upton, David Francis (II)	D.C.
See, John Norman (IV)	Va.	B.S. 1926, University of Maryland	
A.B. 1911, York University			
Sellers, John P. (IV)	P.R.	V	
B.S. 1925, University of Puerto Rico		Vas Ariz, Guy Benjamin (III)	Calif.
Shawmut, Kenneth Lee (IV)	Me.	Vasquez, William Manning (I)	Ill.
Shawmut, Robert James (III)	Mass.	Vasquez, William Manning (III)	D.C.
Shawmut, Robert James (IV)	Mass.	A.B. 1927, The George Washington University	
B.S. 1944, College of William and Mary		Vasquez, William (II)	Ill.
Shawmut, Robert James (IV)	Mass.	Vasquez, John Robert (I)	P.R.
B.S. 1925, Franklin and Marshall College			
Shawmut, Robert James (IV)	Mass.	W	
B.S. 1925, Franklin and Marshall College		Waters, T. Philip (I)	Mass.
Shawmut, Robert James (IV)	Mass.	A.B. 1921, Yale College	
B.S. 1925, Franklin and Marshall College		Ph.D. 1925, Yale University	
Shawmut, Robert James (IV)	Mass.	Waters, William Ernest (I)	Va.
B.S. 1925, Franklin and Marshall College		Wass, Robert Lee (I)	Calif.
Shawmut, Robert James (IV)	Mass.	Waters, William (II)	D.C.
B.S. 1925, Franklin and Marshall College			
Shawmut, Robert James (IV)	Mass.		

Walter, Katharine Marian (II)	Md.	Wilson, William Dea (I)	Wyo.
B.S. 1944, The George Washington University		Wimberey, Claire Baker (III)	Ala.
Warner, Glenn Allyn (IV)	Wash.	A.B. 1944, University of Alabama	
Warberg, Joseph David (IV)	D.C.	Wineland, Robert Kenneth (I)	D.C.
Weaver, Frank Lloyd, Jr. (II)	Md.	Wolter, Frank Ephraim (II)	N.Y.
A.B. 1946, The George Washington University		B.S. 1945, University of Pittsburgh	
Weber, Charles John, Jr. (IV)	D.C.	Wong, Joseph Clarence (IV)	Calif.
Whentley, Evelyn Jane (II)	D.C.	Wright, Ralph Lure (I)	Pa.
A.B. 1947, The George Washington University		A.B. 1947, Kenyon College	
Whittemore, Benjamin Murray (I)	D.C.	Y	
Wickover, Robert Franklin (IV)	Pa.	Yakovitz, Arthur (II)	N.Y.
Winkler, John David (III)	Calif.	Yerger, Thomas William (III)	R.I.
Witte, Rosalie Ann (III)	D.C.	Yeshenko, Michael Alexander (I)	Calif.
A.B. 1946, The George Washington University		Young, Robert (I)	D.C.
Willett, Edwin Dexter (II)	Hawaii	Z	
Williams, Gerald Albert (III)	Iowa		
B.S. 1945, South Dakota State College		Zitani, Alfred Martin (III)	D.C.

# SUMMARIES OF REGISTRATION

1947-48

## NUMBER OF REGISTRATIONS

Class Entering September 1947.....	87
Class Entering September 1946.....	83
Class Entering September 1945.....	68
Class Entering September 1944.....	71
Total.....	314

## GEOGRAPHICAL DISTRIBUTION OF STUDENTS

Alabama .....	3	New Mexico .....	1
Arizona .....	1	New York .....	14
California .....	25	Ohio .....	13
Connecticut .....	3	Oklahoma .....	1
Delaware .....	1	Oregon .....	2
District of Columbia .....	90	Pennsylvania .....	15
Florida .....	5	Rhode Island .....	2
Georgia .....	1	Tennessee .....	2
Idaho .....	1	Texas .....	1
Illinois .....	3	Utah .....	4
Indiana .....	1	Virginia .....	28
Iowa .....	1	Washington .....	10
Kentucky .....	1	West Virginia .....	4
Maryland .....	29	Wisconsin .....	5
Massachusetts .....	3	Wyoming .....	1
Michigan .....	6	Hawaii .....	2
Minnesota .....	2	Mexico .....	1
Mississippi .....	6	Panama .....	1
Montana .....	1	Puerto Rico .....	4
Nevada .....	1	Total.....	314
New Jersey .....	8		

## GRADUATES OF COLLEGES REGISTERED IN THE SCHOOL OF MEDICINE

Alabama, University of .....	1	Georgetown University .....	1
Antioch College .....	1	George Washington University...	35
Birmingham-Southern University ..	1	Hampton-Sydney College .....	2
Boston University .....	2	Harvard University .....	1
Brigham Young University.....	3	Hobart College .....	1
California, University of .....	1	Hope College .....	1
California Institute of Technology	1	Hunter College .....	1
Catholic University of America...	2	Idaho, University of .....	2
Colorado College .....	1	Illinois, University of...	1
Columbia University .....	6	Kansas City, University of .....	1
Cornell University .....	1	Kentucky, University of .....	1
Dartmouth College .....	1	Kenyon College .....	1
Florida, University of .....	1	Lafayette College .....	1
Franklin and Marshall College ..	4	Lebanon Valley College.....	1
Fresno State College .....	1	Lehigh University .....	1

Louisiana State University.....	1	St. Scholastica, College of.....	1
Maricetta College.....	1	Smith College.....	2
Marshall College.....	1	South Dakota, University of.....	1
Maryland, University of.....	3	South Dakota State College.....	1
Maryville College.....	1	Southern California, University of	3
Miami University.....	1	Stanford University.....	4
Michigan, University of.....	2	Swarthmore College.....	1
Minnesota, University of.....	4	Texas, Agricultural and Mechan-	
Mississippi, University of.....	3	ical College of.....	1
Missouri, University of.....	1	Trinity College.....	1
Mount Union College.....	3	Trinity College.....	1
New York University.....	1	Tufts College.....	1
North Carolina, University of....	2	Vassar College.....	1
North Carolina State College....	1	Virginia, University of.....	2
Northwest Missouri State Teachers		Washington, University of.....	2
College.....	1	Washington and Lee University..	1
Northwestern University.....	1	Washington State College.....	1
Notre Dame College, Md.....	1	Wellesley College.....	1
Oberlin College.....	1	Western, Revere University.....	2
Ohio State University.....	1	Westminster College.....	1
Oklahoma, University of.....	2	Wheaton College, Ill.....	1
Oregon, University of.....	2	Whitman College.....	2
Oswego University.....	1	Winnipeg University.....	3
Pennsylvania State College.....	2	Wittenberg College of.....	1
Pennsylvania State Teachers Col-		Worcester, College of.....	1
lege, East Stroudsburg.....	1	Worcester, University of.....	1
Pittsburgh, University of.....	4	Yale University.....	4
Pittsburg College.....	1		
Princeton University.....	2	Number of College Graduates.....	
Puerto Rico, University of.....	2	Number of Colleges Represented.....	
Richmond, University of.....	1		
Rutgers University.....	1		







THE CATALOGUE ISSUE

1948-49





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WASHINGTON  
UNIVERSITY  
BULLETIN

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VOL. XLVII

No. 5

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THE CATALOGUE ISSUE

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WASHINGTON, D. C.

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MCMXLVIII

BY THE UNIVERSITY



# CONTENTS

	Page
THE UNIVERSITY CALENDAR.....	vii
OFFICERS AND COMMITTEES OF THE UNIVERSITY.....	xiii
The Board of Trustees.....	xv
Standing Committees of the Board of Trustees.....	xvii
Officers of Administration.....	xix
The Academic Council.....	xxi
Standing Committees of the Faculty.....	xxiii
Emeritus Faculty.....	xxv
Faculty and Staff of Instruction.....	xxvii
Administrative Assistants.....	1
THE UNIVERSITY.....	1
History and Organization.....	3
Educational Facilities.....	7
Admission.....	10
Registration.....	19
Fees and Financial Regulations.....	20
Fellowships, Scholarships, Prizes, Loans.....	23
Regulations.....	34
Veterans Education.....	41
Student Life.....	42
THE COLLEGES, SCHOOLS, AND DIVISIONS.....	45
The Junior College.....	47
Columbian College (the senior college).....	63
The Graduate Council.....	80
The School of Medicine.....	85
The Law School.....	90
The School of Engineering.....	104
The School of Pharmacy.....	115
The School of Education.....	123
The School of Government.....	135
The Division of University Students.....	140
The Division of Special Students.....	147
The Summer Sessions.....	148
COURSES OF INSTRUCTION.....	149
Anatomy.....	153
Anesthesiology.....	154
Art.....	155
Bacteriology, Hygiene, and Preventive Medicine.....	157
Biochemistry.....	159
Biology.....	160
Botany.....	162
Business Administration.....	164
Chemistry.....	169

	Page
Civil Engineering.....	173
Classical Languages and Literatures.....	176
Dermatology and Syphilology.....	177
Electronics.....	178
Education.....	184
Electrical Engineering.....	185
English.....	193
Geography.....	198
Geology.....	201
Germanic Languages and Literatures.....	202
Health Administration.....	204
History.....	205
Home Economics.....	210
Jouralism.....	213
Law.....	214
Mathematics.....	221
Mechanical Engineering.....	224
Mechanics.....	228
Military Science and Tactics.....	232
Neurology and Neurological Surgery.....	233
Obstetrics and Gynecology.....	235
Ophthalmology.....	237
Otorhinolaryngology.....	238
Pathology.....	239
Pediatrics.....	240
Pharmacology.....	242
Pharmacy.....	243
Philosophy.....	247
Physical Education for Men.....	249
Physical Education for Women.....	254
Physical Medicine.....	258
Physics.....	259
Physiology.....	263
Political Science.....	265
Psychiatry.....	266
Psychology.....	271
Radiology.....	276
Religion.....	277
Romance Languages and Literatures.....	279
Secretarial Science.....	285
Sociology.....	287
Speech.....	290
Statistics.....	294
Surgery.....	299
Urology.....	302
Zoology.....	303
UNIVERSITY ORGANIZATIONS.....	307
Alumni and Allied Associations.....	309
Honor Societies.....	310
Student Organizations.....	318
INDEX.....	321



THE UNIVERSITY CALENDAR

1948													1949												
July							January							July											
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S					
..	..	..	..	1	2	3	..	..	..	..	..	..	1	..	..	..	..	..	1	2					
4	5	6	7	8	9	10	2	3	4	5	6	7	8	3	4	5	6	7	8	9					
11	12	13	14	15	16	17	9	10	11	12	13	14	15	10	11	12	13	14	15	16					
18	19	20	21	22	23	24	16	17	18	19	20	21	22	17	18	19	20	21	22	23					
25	26	27	28	29	30	31	23	24	25	26	27	28	29	24	25	26	27	28	29	30					
..	..	..	..	..	..	..	30	31	..	..	..	..	..	31	..	..	..	..	..	..					
August							February							August											
1	2	3	4	5	6	7	..	..	1	2	3	4	5	..	1	2	3	4	5	6					
8	9	10	11	12	13	14	6	7	8	9	10	11	12	7	8	9	10	11	12	13					
15	16	17	18	19	20	21	13	14	15	16	17	18	19	14	15	16	17	18	19	20					
22	23	24	25	26	27	28	20	21	22	23	24	25	26	21	22	23	24	25	26	27					
29	30	31	..	..	..	..	27	28	..	..	..	..	..	28	29	30	31	..	..	..					
September							March							September											
..	..	1	2	3	4	..	..	..	1	2	3	4	5	..	..	..	..	1	2	3					
5	6	7	8	9	10	11	6	7	8	9	10	11	12	4	5	6	7	8	9	10					
12	13	14	15	16	17	18	13	14	15	16	17	18	19	11	12	13	14	15	16	17					
19	20	21	22	23	24	25	20	21	22	23	24	25	26	18	19	20	21	22	23	24					
26	27	28	29	30	..	..	27	28	29	30	31	..	..	25	26	27	28	29	30	..					
October							April							October											
..	..	..	..	1	2	..	..	..	..	..	..	1	2	..	..	..	..	..	1	2					
3	4	5	6	7	8	9	3	4	5	6	7	8	9	2	3	4	5	6	7	8					
10	11	12	13	14	15	16	10	11	12	13	14	15	16	9	10	11	12	13	14	15					
17	18	19	20	21	22	23	17	18	19	20	21	22	23	16	17	18	19	20	21	22					
24	25	26	27	28	29	30	24	25	26	27	28	29	30	23	24	25	26	27	28	29					
31	..	..	..	..	..	..	..	..	..	..	..	..	..	30	31	..	..	..	..	..					
November							May							November											
1	2	3	4	5	6	1	1	2	3	4	5	6	7	..	..	1	2	3	4	5					
7	8	9	10	11	12	13	8	9	10	11	12	13	14	6	7	8	9	10	11	12					
14	15	16	17	18	19	20	15	16	17	18	19	20	21	13	14	15	16	17	18	19					
21	22	23	24	25	26	27	22	23	24	25	26	27	28	20	21	22	23	24	25	26					
28	29	30	..	..	..	..	29	30	31	..	..	..	..	27	28	29	30	..	..	..					
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..					
December							June							December											
..	..	..	1	2	3	4	..	..	..	1	2	3	4	..	..	..	..	1	2	3					
5	6	7	8	9	10	11	5	6	7	8	9	10	11	4	5	6	7	8	9	10					
12	13	14	15	16	17	18	12	13	14	15	16	17	18	11	12	13	14	15	16	17					
19	20	21	22	23	24	25	19	20	21	22	23	24	25	18	19	20	21	22	23	24					
26	27	28	29	30	31	..	26	27	28	29	30	..	..	25	26	27	28	29	30	31					

# THE UNIVERSITY CALENDAR \*

1948-49

Date	Day	Occasion
1948		
FALL TERM		
Sept. 18.....	Saturday .....	Preregistration for the fall term
Sept. 28.....	Tuesday .....	Meeting of the University Faculty Examination for students who wish to qualify for advanced courses or waive curriculum re- quirements
Sept. 29.....	Wednesday .....	Placement tests in English and Romance languages
Sept. 29 and 30	Wednesday and Thursday .....	Registration of students registered winter or summer term, 1948
Oct. 1.....	Friday .....	Registration of new students
Oct. 4.....	Monday .....	Academic year begins
Oct. 14.....	Tuesday .....	Special meeting of the Board of Trustees
Oct. 1.....	Saturday .....	Last day on which candidates may file thesis subjects for the Master's degrees conferred in February
Oct. 23.....	Saturday .....	Last day on which candidates may file dissertation subjects for the degree of Doctor of Philosophy and Doctor of Edu- cation to be conferred the fol- lowing June
Nov. 11.....	Thursday .....	Fall Convocation. Holiday
Nov. 25-27....	Thursday through Saturday .....	Thanksgiving recess
Dec. 7.....	Tuesday .....	Meeting of the Academic Council
Dec. 9.....	Thursday .....	Special meeting of the Board of Trustees
Dec. 11.....	Saturday .....	Foreign language examinations for candidates for the Master's de- grees
Dec. 22-Jan. 1	Wednesday through Saturday .....	Christmas recess
1949		
Jan. 3 and 4..	Monday and Tuesday	Preregistration of students regis- tered in the fall term

\* In the School of Medicine, registration is conducted September 16 and 17, classes begin September 20.

## THE UNIVERSITY CALENDAR—Continued

Date	Day	Observance
Jan. 5	Wednesday	Closes recess Last day for applications for degrees to be conferred in February
Jan. 7	Friday	Last day for receiving dissertations of candidates for the degrees of Doctor of Philosophy and Doctor of Education to be conferred in February
Jan. 20	Thursday	Immigration Day. Holiday
Jan. 22	Saturday	Last day of classes for the fall term
Jan. 24	Monday	Last day for receiving theses of candidates for the Master's degree and for the provisional degrees in Engineering to be conferred in February
Jan. 24-Feb. 1	Monday through Tuesday	Full term examination period
WINTER TERM: Feb. 2	Wednesday	Examinations for students who wish to qualify for advanced courses or waive curriculum requirements Placement tests in English and Romance Languages
Feb. 4	Friday	Registration of new students
Feb. 7	Monday	Closes recess for the winter term
Feb. 10	Thursday	Stated meeting of the Board of Trustees
Feb. 18	Friday	Last day on which candidates may file the subjects for the Master's degrees to be conferred in June
Feb. 22	Tuesday	Winter Convocation. Holiday
March 1	Tuesday	Applications for fellowships for 1947-50 should be filed
March 10	Thursday	Stated meeting of the Board of Trustees
March 22	Tuesday	Meeting of the University Faculty
April 9	Saturday	Foreign language examinations for candidates for the Master's degree
April 14	Thursday	Last day for sending dissertations of candidates for the degrees of Doctor of Philosophy and Doctor of Education to be conferred in June



## THE UNIVERSITY CALENDAR—Continued

Date	Day	Observance
April 14.....	Thursday .....	Last day on which candidates may file dissertation subjects for the degrees of Doctor of Philosophy and Doctor of Education to be conferred the following February. Last day for applications for degrees to be conferred in June.
April 15 and 16.....	Friday and Saturday..	Faster recess.
April 25.....	Monday .....	Last day for receiving theses of candidates for the Master's degree and for the professional degrees of Engineering to be conferred in June.
April 26.....	Tuesday .....	Meeting of the Academic Council.
May 2.....	Monday .....	Applications for scholarships for 1949-50 should be filed. Summer term presentation of students registered winter term.
May 17.....	Tuesday .....	Last day of classes for the winter term.
May 18-26....	Wednesday through Thursday .....	Winter term examination period.
May 19.....	Thursday .....	Annual meeting of the Board of Trustees.
May 29.....	Sunday .....	Baccalaureate Service.
June 1.....	Wednesday .....	Commencement.
<b>SUMMER TERM:</b>		
June 7.....	Tuesday .....	Registration of new students for the first session and the fifteen-week term of the summer term.
June 8.....	Wednesday .....	Classes begin.
July 4.....	Monday .....	Independence Day—Holiday.
Aug. 1.....	Monday .....	First summer session ends.
Aug. 2.....	Tuesday .....	Registration for the second session of the summer term.
Aug. 3.....	Wednesday .....	Classes begin.
Aug. 27.....	Saturday .....	Fourth summer session ends for the concluding two months of the year.
Sept. 5.....	Monday .....	First Day—Holiday.
Sept. 16.....	Friday .....	Fifteen-week term ends.
Sept. 23.....	Friday .....	Second summer session ends.
Sept. 28-30....	Wednesday through Friday .....	Registration for the fall term of the academic year 1949-50.



OFFICERS AND COMMITTEES  
OF THE UNIVERSITY





## THE BOARD OF TRUSTEES

The Board of Trustees of the University is composed of the President and Vice-President of the University ex officio and the following persons by election:

1949

John St. Clair Brookes, Jr., A.M., LL.B.; Colorado Building  
John Henry Cowles, LL.D.; 1733 Sixteenth Street  
Homer Cummings, Ph.B., LL.B., LL.D., L.H.D., 1625 K Street  
Robert Vedder Fleming, LL.D.; Riggs National Bank  
Charles Carroll Glover, Jr., A.M., LL.B.; Riggs National Bank  
Mrs. Henry Alvah Strong, LL.D.; 502 National Savings and Trust Building  
Merle Thorpe, A.B.; 703 Ring Building  
Alexander Wetmore, Ph.D., Sc.D.; Smithsonian Institution  
\*Charles Stanley White, M.D., Sc.D.; 1801 I Street

1950

Avery DeLano Andrews, B.S., LL.B.; Winter Park, Florida  
Clarence Aiken Aspinwall; 1140 Fifteenth Street  
Lyman James Briggs, Ph.D., Sc.D., D.Eng., LL.D.; National Bureau of Standards  
Henry Parsons Erwin, A.B.; Hibbs Building  
Mrs. Joshua Evans, Jr., A.B., Ed.D.; 3405 Lowell Street  
\*Robert Elliott Freer, A.B., LL.M.; Federal Trade Commission  
John Edgar Hoover, LL.M., LL.D.; United States Department of Justice  
\*Frank Atherton Howard, B.S. in M.E., LL.B.; 30 Rocketteller Plaza, New York City  
Walter Rupert Tuckerman, A.B., LL.B.; 5415 Edgemoor Lane, Bethesda, Maryland  
Chester Wells, B.S., Graduate United States Naval War College; Colorado Building

1951

\*Newell Windom Ellison, A.B., LL.B.; Union Trust Building  
Charles William Gerstenberg, Ph.B., LL.B., J.D.; 70 Fifth Avenue, New York City  
Gilbert Grosvenor, A.M., LL.D., Litt.D.; National Geographic Society

\* Nominated by the State

\*Brooks Hays, A.B., LL.B., LL.D.; The House Office Building  
Benjamin Mosby McKelway; The Evening Star Building  
Alfred Henry Lawson, LL.B.; Washington Loan and Trust Company  
\*Claude Worthington Owen, LL.M.; 2321 Fourth Street  
Lloyd Bennett Wilson; 2100 Connecticut Avenue

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*Chairman of the Board of Trustees*  
Robert Vedder Fleming

*Secretary of the Board of Trustees*  
Henry Parsons Erwin

*Assistant Secretary of the Board of Trustees*  
Newell Windom Ellison

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\* Nominated by the alumni.

## STANDING COMMITTEES OF THE BOARD OF TRUSTEES

The Chairman of the Board of Trustees and the President of the University shall be members ex officio of each of the committees of the Board. The President of the University shall be Chairman of the Executive Committee.

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Mr. Hoover; Mr. Howard; Dr. White

### COMMITTEE ON ENDOWMENT FUNDS

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Mrs. Strong

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Mr. Erwin, *Chairman*; Mr. Aspinwall; Mr. Wells

### COMMITTEE ON NOMINATION OF TRUSTEES

Mr. Wells, *Chairman*; Mr. Cowles; Mr. Grosvenor; Mr. Hoover;  
Mr. McKelway

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Mr. Ellison, *Chairman*; Mrs. Evans; Dr. White

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Mr. Briggs, *Chairman*; Mr. Cummings; Mr. Lawson

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Mr. Cummings, *Chairman*; Mr. Brookes; Mr. Ellison

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Mr. Wilson, *Chairman*; Mr. Erwin; Mrs. Evans; Mr. Freer;  
Mr. Grosvenor

## COMMITTEE ON EXTRA-CURRICULAR ACTIVITIES

Mr. Brookes, *Chairman*; Mr. Freer; Mr. Tuckerman

## COMMITTEE ON PUBLIC RELATIONS

Mr. Freer, *Chairman*; Vice President Grant, *Secretary*; Mrs. Evans;  
Mr. McKelway; Mr. Wetmore



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 Ulysses S. Grant, 3d, B.S., *Graduate United States Engineers School,*  
*Vice-President*  
 Harold Griffith Sutton, M.S., *Director of Admissions*  
 Burnice Herman Jarman, A.M., Ed.D., *Registrar; Secretary of the*  
*Faculties*  
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xlv

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4

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CURTIS EDWARD TUTHILL, Ph.D. <i>Assistant Professor of Psychology</i>	2310 N. Oak St. Arlington, Va.
FREDERICK BARTON TUTTLE, Ph.D. <i>Associate Professor of Education</i>	1114 14th Ave. Beverly Hills, Cal.
HARRIET ELIZABETH TWOMBLY, A.B., M.D. <i>Associate in Psychiatry</i>	St. Elizabeths Hospital
ELIZABETH UELSMANN, A.M. <i>Instructor in Spanish</i>	1427 N. Tenth St. Arlington, Va.
BENJAMIN DOUGLASS VAN EVERA, Ph.D. <i>Professor of Chemistry; Coordinator in Sciences</i>	2124 I St.
JOE MILTON VAN HOY, A.B., M.D. <i>Clinical Instructor in Surgery</i>	2209 N. Quantico St. Arlington, Va.
HOMER KING VANN, A.B., M.D. <i>Clinical Instructor in Otolaryngology</i>	1811 Sudbury Rd.
WILLIAM CABELL VAN VLECK, A.B., LL.B., S.J.D., LL.D. <i>Professor of Law; Dean of the Law School</i>	4120 Harrison St.
ALBERTO VÁZQUEZ, Ph.D. <i>Lecturer on Spanish American Literature</i>	5721 14th Rd. N. Arlington, Va.
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OSCAR MILTON VILLAREJO, A.B. <i>Instructor in English</i>	1809 G St.
ROBERT COREIN VINCENT, Ph.D. <i>Associate Professor of Chemistry</i>	1705 Surrey Lane
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DONALD STEVENSON WATSON, Ph.D. <i>Professor of Economics</i>	Room 100 Yonkers, Va.
JOHN WILBUR WATSON, Jr., Ph.D. <i>Lecturer in English</i>	207 E. Lee St. Alexandria, Va.



*Staff of Instruction*

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JAMES WINSTON WATTS, B.S., M.D. <i>Professor of Neurological Surgery</i>	4661 Garfield St.
EDWARD LEONG WAY, Ph.D. <i>Assistant Professor of Pharmacology</i>	5408 1st Pl.
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FRANK MARK WEIDA, Ph.D. <i>Professor of Statistics</i>	7130 Hampden Lane Bethesda, Md.
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IOACHIM WEYL, Ph.D. <i>Lecturer in Mathematics</i>	Route 3 Farming, Va.
NATALIE EVELYN WHITE, Ph.D. <i>Instructor in Speech</i>	1131 N. Kentucky Ave. Arlington, Va.
RUTH HECHLER WICHELHAUSEN, M.D. <i>Associate in Medicine</i>	2231 Columbia St.
THOMAS ARTHUR WIGGINS, B.S. in Ed. <i>Associate in Physics</i>	5215 Columbia Ave.
ALVA CURTIS WILGUS, Ph.D. <i>Professor of Latin American History</i>	3706 33d Pl.
RICHARD WALLACE WILKINSON, M.S., M.D. <i>Associate in Ophthalmology</i>	1419 Webster St.
WENDELL MELVIN WILLETT, M.D. <i>Clinical Instructor in Dermatology and Syphilology</i>	4111 Cathedral Ave.
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WILLIAM ADRIANCE WITHINGTON, A.M. <i>Instructor in Geography</i>	2029 G St.

REUBEN ESSELSTYN WOOD, Ph.D. <i>Assistant Professor of Chemistry</i>	2801 Pennsylvania Ave. SE
HENRY HARCUS WORK, A.B., M.D. <i>Associate in Pediatrics</i>	1335 H St.
THOMAS CLARKSON WORTH, M.D. <i>Clinical Instructor in Anatomy</i>	1815 I St.
SAMUEL NATHANIEL WRENN, Ph.D. <i>Professor of Chemistry</i>	3137 5th St. N. Arlington, Va.
LAWSON EDWIN YOCUM, Ph.D. <i>Professor of Botany</i>	4509 Western Ave.
DONNELL BROOKS YOUNG, Ph.D. <i>Professor of Zoology</i>	7128 Hampton Lane Bethesda, Md.
RALPH AUBREY YOUNG, Ph.D. <i>Professorial Lecturer in Economics</i>	2810 Chesapeake St.
HYMAN JOSEPH ZIMMERMAN, A.B., M.D. <i>Clinical Instructor in Medicine</i>	3351 Quincy Pk. Baltimore, Md.

## SEMINAR LECTURERS

## PHARMACY

JAMES ANDERSON CRABTREE, M.D., D.P.H. <i>Professorial Lecturer on Public Health</i>	33 W. Irving St. Chevy Chase, Md.
FREDERICK JOHN CULLEN, Ph.D., M.D. <i>Professorial Lecturer on Drug Manufacture</i>	815 18th St.
JAMES JOHNSON DURRETT, M.S., Ph.D., M.D. <i>Professorial Lecturer on Drug Control Problems</i>	Route 1 Hyattsville, Md.
ROBERT PHILIPP FISCHER, B.S., Ph.D., Sc.D. <i>Professorial Lecturer on Pharmaceutical Organizations</i>	2215 Constitution Ave.
CARSON PETER FRAILEY, Ph.D. <i>Professorial Lecturer on Industrial Pharmacy</i>	3744 Livingston St.
JAMES ALBERT HORTON, LL.B. <i>Professorial Lecturer on Drug Trade Regulations</i>	3741 39th St.
JOHN CHRISTIAN KRANTZ, JR., Ph.D. <i>Professorial Lecturer on Pharmaceutical Research</i>	Ellingham Rd. Ruxton, Md.
GEORGE POTTER LARRICK <i>Professorial Lecturer on Drug Control</i>	4841 3rd St. N. Arlington, Va.
JUSTIN LAWRENCE POWERS, Ph.D. <i>Professorial Lecturer on Official Drug Standards</i>	833 S. Barton St. Arlington, Va.
GEORGE CLEMENS RUHLAND, M.D. <i>Professorial Lecturer on Hygiene and Sanitation</i>	1875 Plymouth St.
ROBERT LEE SWAIN, Ph.D., LL.B. <i>Professorial Lecturer on Contemporary Pharmacy</i>	33 W. 42d St. New York City

MEDICINE

- |   |                                       |
|---|---------------------------------------|
| CHARLES ARMSTRONG, B.S., M.D., Sc.D.<br><i>Professorial Lecturer in Preventive Medicine</i>                       | 7005 Meadow Lane<br>Chevy Chase, Md.  |
| JAMES EARL ASH, JR., M.D.<br><i>Professorial Lecturer in Pathology</i>  | 8433 Dixon Ave.<br>Silver Spring, Md. |
| SARA ELIZABETH BRANHAM, Ph.D., M.D.,<br>Sc.D.<br><i>Professorial Lecturer in Preventive Medicine</i>              | 5528 Johnson Ave.<br>Bethesda, Md.    |
| ROBERT CARTER COOK<br><i>Professorial Lecturer on Medical Genetics</i>  | 1377 M St.                            |
| ROLLA EUGENE DYER, A.B., M.D., LL.D.<br><i>Professorial Lecturer in Preventive Medicine</i>                       | 12 North Dr.<br>Bethesda, Md.         |
| CHESTER WILSON EMMONS, Ph.D.<br><i>Professorial Lecturer on Medical Mycology</i>                                  | R.D. 2<br>Rockville, Md.              |
| ROBERT HANNA FELIX, M.D., M.P.H.<br><i>Professorial Lecturer on Mental Hygiene</i>                                | 5822 Roosevelt St.<br>Bethesda, Md.   |
| WALLACE HARRY GRAHAM, B.S., M.D.<br><i>Professorial Lecturer in Surgery</i>                                       | The White House                       |
| JOHN RODERICK HELLER, JR., B.S., M.D.<br><i>Professorial Lecturer on Venereal Disease Control</i>                 | 8615 Lyndbrook Dr.<br>Bethesda, Md.   |
| ELSON BOWMAN HELWIG, B.S., M.D.<br><i>Professorial Lecturer in Pathology</i>                                      | 14 West Maple St.<br>Alexandria, Va.  |
| WILLIAM WESLEY PETER, Ph.M., M.D.,<br>Dr.P.H.<br><i>Professorial Lecturer on Public Health<br/>Administration</i> | 1750 N. Troy St.<br>Arlington, Va.    |
| CARL JOHN LAUTER, M.S.<br><i>Professorial Lecturer on Municipal Sanitation</i>                                    | 5902 Dalecarlia Pl.                   |
| HENRY RAPPAPORT, M.D.<br><i>Professorial Lecturer in Pathology</i>  | 1466 Belmont St.                      |
| ROYD RAY SAYERS, A.M., M.D.<br><i>Professorial Lecturer on Industrial Hygiene</i>                                 | 607 Orinoco St.<br>Alexandria, Va.    |
| HANS FRANK SMETANA, M.D.<br><i>Professorial Lecturer in Pathology</i>   | 6100 14th St.                         |
| NORMAN HAWKINS TOPPING, A.B., M.D.<br><i>Professorial Lecturer on Rickettsial Diseases</i>                        | 800 Carter Rd.<br>Bethesda, Md.       |
| WILLARD HULL WRIGHT, D.V.M., Ph.D.<br><i>Professorial Lecturer on Medical Zoology</i>                             | 6624 32d Pl.                          |
| CLARK HARVEY YEAGER, M.D., Dr.P.H.<br><i>Professorial Lecturer on Tropical Medicine</i>                           | 13 Midvale Rd.<br>Baltimore, Md.      |

ASSISTANTS

ASSISTANTS IN RESEARCH AND INSTRUCTION

- |  |                 |
|--|-----------------|
| RUTH BENEDICT, A.B., M.D.<br><i>Fellow in Cardiology</i> | 2122 Tunlaw Rd. |
|--|-----------------|

SAMUEL BESSMAN, M.D. <i>Fellow in Pediatrics</i>	1335 H St.
ESTON ROBERT CALDWELL, B.S., M.D. <i>Teaching Fellow in Medicine</i>	1335 H St.
ALLAN BERTRAM COLEMAN, M.D. <i>Teaching Fellow in Pediatrics</i>	1308 Farragut St.
JOSEPH AUGUSTINE CONNOR, Jr., M.D. <i>Teaching Fellow in Medicine</i>	3920 Fulton St.
JASON GEIGER, A.B., M.D. <i>Fellow in Pulmonary Diseases</i>	2321 Lincoln Rd. NE
JOSEE GHISLAINE HOEBEKE, M.D. <i>Fellow in Anesthesiology</i>	University Hospital
LEROY EDWARD HOECK, M.D. <i>Research Fellow in Pediatrics</i>	1335 H St.
JACK KLEH, A.B., M.D. <i>Research Fellow in Cardiology</i>	6523 Clarendon Rd. Bethesda, Md.
WILLIAM FRANCIS EDWARD LONG, A.M. <i>Teaching Fellow in Economics</i>	3902 McKinley St.
GEORGE BENEDICT MAGIN, Jr., B.S. <i>Sanders Fellow in Chemistry</i>	2020 G St.
JOHN McCALLEY, A.M. <i>Teaching Fellow in Economics</i>	1900 F St.
LOUIS JOSEPH MICHINI, A.B. <i>Sanders Fellow in Bacteriology</i>	7542 12th St.
MAX STEPHEN MILLAR, M.D. <i>Teaching Fellow in Pathology</i>	2422 Columbia Dr. Silver Spring, Md.
ZELMA BAKER MILLER, B.S., Ph.D. <i>Research Associate in Pharmacology</i>	1101 Trenton Pl.
ROBERT RICE MONTGOMERY, A.B., M.D. <i>Teaching Fellow in Pathology</i>	4045 Hawthorne Lane
HOWARD CLEMETH PIERPONT, A.B., M.D., C.M. <i>Fellow in Surgery</i>	1221 Taylor St. Arlington, Va.
EUGENE WORTHINGTON RICE, B.S. <i>Sanders Fellow in Biochemistry</i>	703 Massachusetts Ave. NE
MARIAN ELIZABETH ROSSI, A.B. <i>Sanders Fellow in Bacteriology</i>	121 Perry St. NE
FREDERICK SHILLINGER, B.S., M.D. <i>Teaching Fellow in Pathology</i>	Highland, Md.
JOHN SKINNER, A.B. <i>Teaching Fellow in Economics</i>	Garrett Park Rd. Kensington, Md.
BENJAMIN WILLIAMS SMITH, B.S. <i>Sanders Fellow in Biochemistry</i>	1715 N. Nelson St. Arlington, Va.



# Staff of Instruction

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HYMAN ERWIN STEINMAN, M.D. <i>Teaching Fellow in Physiology</i>	3500 14th St.
CELIA WHITE TABOR, A.B., M.D. <i>Research Associate in Pharmacology</i>	313 W. 14th Ave.
LASZLO NANDOR TAUBER, M.Ch., M.D. <i>Teaching Fellow in Neurological Surgery</i>	700 P St. Ave. 1000 Capitol V.
EKREM TURAN, M.D. <i>Teaching Fellow in Obstetrics and Gynecology</i>	1335 H St.
MERTON WAITE, M.D. <i>Teaching Fellow in Anatomy</i>	2505 13th St.

## TECHNICAL ASSISTANTS

MARY JANE HARRELSON, A.B. <i>Technician in Medicine</i>	1825 P St. Ave. SE.
SOLOMON HAZÁN <i>Technician in Biochemistry</i>	711 Updun St.
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CLARENCE WILBUR MILLER <i>Technician in Pathology</i>	4010 9th St. NE.
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Jessie Packett, *Secretary*  
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Henrietta Rosenblatt, *Purchasing Assistant*  
Donald Charles Edmonds, B.S., *Personnel Officer*  
Doama Winston Strasberg, A.B., *Order Clerk*  
Angela D'Andrea, *Clerk in the Office of Business Manager*  
Roberta Lush, *Secretary to the Personnel Officer*  
George Dewey Eckert, *Superintendent of the Shop*  
Vincent Bateman, *Supervisor of Stores*  
David Maurice Barrie, *Acting Superintendent of Maintenance*  
Lillian Wright Smith, *Garden Consultant*  
Gertrude Ewing, *Manager of the Faculty Dining Room*  
Birdie Harris, *Manager of the Student Club*  
Margaret Hughes Praeflin, *Chief Telephone Operator*  
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Barbara Guinn, *Staff Writer*  
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Barbara MacLachlan Brown, A.B., *Placement Assistant in the Office of the Director of Activities for Women*  
Priscilla Frances Hufford, *Secretary in the Office of the Director of Activities for Women*  
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Jane Whitmore, *Clerk*  
Richard Mahoney, *Clerk*

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John Howell Rowland, LL.B., *Head Football Coach*  
Arthur David Zahn, A.B., *Baseball and Basketball Coach*  
Eugene Hugh Sherman, Sr., B.S., *Assistant Football Coach and Freshman Basketball Coach*

Timothy Swett, B.S., *Assistant Football Coach*  
 Roger Antaya, A.M., *Assistant Football Coach*  
 Andrew Adam Victor, A.B., *Assistant Football Coach*

MUSICAL ACTIVITIES

Robert Howe Harmon, A.B., M.D., *Director of the Glee Clubs*  
 Grace Ruble Harmon, *Associate Director of the Glee Clubs*  
 Leon Brusiloff, *Director of The George Washington University Band*

RESIDENCE AND SORORITY HALLS

Maude Sewell, A.B., *Hostess in the Hattie M. Strong Residence Hall  
 for Women*  
 Jessie Ramsey Lee, *Hostess in Staughton Hall*  
 Virginia Randolph Kirkbride, A.M., *Hostess in Sorority Hall, 2120 G  
 Street*  
 Jessie Baldwin, *Hostess in Sorority Hall, 802 Twenty-first Street*



THE UNIVERSITY



## HISTORY AND ORGANIZATION

### HISTORY

The idea of a university located in the Capital of the Nation was sponsored by George Washington, who during his public life urged the establishment of such an institution and who in his will left fifty shares of stock in the Potomac (Canal) Company for the endowment of a university to be established in the District of Columbia "to which the youth of fortune and talents from all parts thereof might be sent for the completion of their Education in all the branches of polite literature:—in arts and Sciences,—in acquiring knowledge in the principles of Politics & good Government".

It was George Washington's hope that the "General Government" would extend toward such an institution "a fostering hand". No steps were taken by Congress to carry out the provision of Washington's will, and the stock that he had bequeathed for the establishment of a university in the District of Columbia became valueless owing to the failure of the Potomac Canal properties.

Meanwhile, however, a movement was started by private persons under the leadership of Luther Rice to establish an institution of higher learning at the seat of the National Government for the education of the Baptist ministry and to afford general collegiate training. In 1819 an association was formed by Luther Rice, Obadiah B. Brown, Spencer H. Cone, and Enoch Reynolds for the purpose of raising funds to buy land for the use of the college.

A group of the Nation's leaders who were especially interested in Washington's idea became patrons of the college and contributed to funds raised for the purchase of land and erection of buildings. Among them were James Monroe, President of the United States; William H. Crawford, Secretary of the Treasury; John C. Calhoun, Secretary of War; William Wirt, Attorney General; Return J. Meigs, Postmaster General; and thirty-two members of the Congress.

Legally to implement the college a petition was made to Congress for the incorporation of "the General Convention of the Baptist Denomination in the District of Columbia for evangelical and literary purposes". This petition was denied by Congress, on April 20, 1820, because of its sectarian character.

Failing to obtain a denominational charter, members of the association enlarged their objective to embrace national aims, and with the sponsorship of Government leaders there was presented in Congress a bill for the incorporation of "the Columbian Society for literary pur-

poses", it being proposed to realize in this way "the aspirations of Washington, Jefferson and Madison for the erection of a university at the seat of the federal government".

Acting upon this second petition, on February 9, 1821, Congress chartered Columbian College in the District of Columbia, inserting in the charter by special action the provision "That persons of every religious denomination shall be capable of being elected Trustees; nor shall any person, either as President, Professor, Tutor or pupil, be refused admittance into said College or denied any of the privileges, immunities or advantages thereof, for or on account of his sentiments in matters of religion".

Thus Columbian College in the District of Columbia was chartered by Congress as one of the early nonsectarian institutions of higher learning in the United States, under the distinguished favor of President James Monroe and members of his Cabinet.

A tract of approximately forty-seven acres, extending about one-half mile northwest of Boundary Street (Florida Avenue) between 14th and 15th Streets, was purchased and by 1822 the main building was completed sufficiently to use.

Two years later, when the first Commencement was held on December 15, 1824, Congress and the Supreme Court adjourned their sessions to enable their members to attend the exercises. President Monroe, John Quincy Adams, John C. Calhoun, Henry Clay, and the Marquis de Lafayette headed the eminent company in attendance.

The School of Medicine, established in 1821, was formally opened in 1825 and has been in continuous operation since that time. The Law School, organized in 1826, was discontinued the following year, and was reestablished in 1865. It is the oldest law school in Washington.

By an act of Congress of March 3, 1873, the name of the college was changed to "Columbian University", in recognition of the enlarged scope of the institution. In 1884 the University was moved from its first location on "College Hill", now Columbia Heights, to the new University Hall built for it at Fifteenth and H Streets. Near-by buildings accommodated the School of Medicine.

For a period of six years, from 1898 to 1904, the University was placed under control of the Baptist Denomination. In 1904 an act restoring the original secular character of the University and authorizing change of name to The George Washington University was passed by Congress.

Subsequently all the colleges, schools, and divisions of the University except the School of Medicine, which is situated on H Street between Thirteenth and Fourteenth Streets NW., were brought together at the present location in the city block bounded by Twentieth, Twenty-first, G, and H Streets NW., and in the blocks adjacent.

In 1930 a new plan of academic organization for the liberal arts



work was effected. The Junior College was established, comprising the work of the freshman and sophomore years. The junior and senior years were retained in Columbian College, which was designated the senior college of letters and sciences. As a further step, the year of study leading to the Master's degree was separated from the graduate work for the Doctor's degree and assigned to Columbian College. The Graduate Council was organized to administer the work for the degree of Doctor of Philosophy. These innovations were accompanied by the establishment of a carefully controlled independent study plan, the grouping of departments of instruction under the divisional type of organization, and the institution of a new plan of administration both for the undergraduate major and for the Master's work.

The endowment of the University is \$2,765,000.

#### THE COLLEGES, SCHOOLS, AND DIVISIONS

The George Washington University includes twelve colleges, schools, and divisions, as follows: the Junior College; Columbian College, the senior college of letters and sciences; the Graduate Council; the School of Medicine; the Law School; the School of Engineering; the School of Pharmacy; the School of Education; the School of Government; the Division of University Students; the Division of Special Students; and the Summer Sessions.

#### ACADEMIC STATUS

The George Washington University is on the approved list of the Association of American Universities, the standard accrediting body for the universities and colleges of the United States. This fact not only assures to students the academic standards of this accrediting body, but also is important to those who desire to transfer credits from one institution to another.

The University is also accredited by its regional accrediting agency, the Middle States Association of Colleges and Secondary Schools, and is on the approved list of the American Association of University Women.

The Law School is a charter member of the Association of American Law Schools and is approved by the Council of Legal Education of the American Bar Association. The School of Medicine is a member of the Association of American Medical Colleges, is one of the medical colleges which have been designated continuously as "class A" by the American Medical Association, and is credited for all its work by the Combined (Royal) Medical Examining Boards in England. The School of Pharmacy is accredited by the American Council on Pharmaceutical Education and is a member of the American Association of Colleges of Pharmacy. The School of Engineering is on the accredited list of the Engineers' Council for Professional Development.

### LOCATION

The George Washington University is in downtown Washington, four blocks west of the White House and east of the Potomac River with its extensive parkway. Within a few blocks are many of the departments of the Government, including the Department of State, the Department of the Treasury, the Department of Justice, the Department of the Navy, the Department of the Interior, the Department of Agriculture, the Department of Commerce, and the Department of Labor. The Corcoran Gallery of Art, the Pan American Union Building, and the National Academy of Sciences are also near by, and the Capitol, the Library of Congress, and the National Gallery of Art are readily accessible to the University.

### GOVERNMENT

The government and general educational management of The George Washington University are vested in a self-perpetuating Board of Trustees, with the **President and Vice-President of the University** as members ex officio. The members of the Board are named for a period of three years and are divided into three classes. The members of one class are elected at each annual meeting to fill the places of the members whose **terms of office expire**. **Two members of each class are nominated by the Alumni Association.**

## EDUCATIONAL FACILITIES

### BUILDINGS

Buildings, grounds, and equipment are valued at approximately \$12,000,000.

The buildings of the Junior College, Columbian College, the Graduate Council, the Law School, the School of Engineering, the School of Pharmacy, the School of Education, the School of Government, the Division of University Students, the Division of Special Students, and the University Hospital and Dispensary are located between Twentieth and Twenty-third Streets and between Pennsylvania Avenue and G Street. The School of Medicine is at Fourteenth and H Streets NW. The buildings of the University are as follows:

Corcoran Hall, 725 Twenty-first Street. Named in honor of the late William W. Corcoran, benefactor of the University and a former member of the Board of Trustees. Offices of the Comptroller, the departments of Chemistry, Electrical Engineering, and Physics; the chemistry, electrical engineering, and physics laboratories; classrooms.

Faculty Club House, 714 Twenty-first Street.

Gymnasium, 2115-12 H Street. Offices of the Department of Physical Education for Men.

Hall of Government, 717 Twenty-first Street. The gift of Mrs. Henry Alvah Strong, Trustee of the University. Offices of the Dean of the School of Government, the departments of Business Administration, Economics, History, Political Science, and Statistics.

Hospital and Dispensary, Washington Circle.

International House, 2116 G Street. Office of the Adviser to Students from Foreign Countries; Club rooms.

Lisner Auditorium, 737 Twenty-first Street. The gift of Abraham Lisner, late Trustee of the University. The Auditorium; offices and classrooms of the Department of Speech.

Mechanical Engineering Building, 735 Twenty-first Street. Offices of the departments of Electrical and Mechanical Engineering; engineering testing laboratories, general laboratories, drafting rooms, and classrooms.

Office of the President, 2113 G Street.

Office of the Vice President, 2113 G Street.

School of Medicine, 1435 H Street. Offices of the Staff of the School of Medicine; anatomy, bacteriology, biochemistry, histology and embryology, pathology, pharmacology, and physiology laboratories; the Medical Library; lecture rooms; dormitory; students' rooms.

Society Hall

2120 G Street. Apartments of Pi Beta Phi, Sigma Kappa, Phi Mu, Alpha Delta Pi, Delta Zeta, Zeta Tau Alpha, and Kappa Kappa Gamma societies.

2131 G Street. Apartments of Delta Gamma Society and Martha Washington Club.

822 Twenty-first Street. Apartments of Chi Omega and Phi Sigma Sigma societies.

2112 G Street. Apartments of Kappa Alpha Theta and Kappa Delta societies. Staughton Residence Hall for Women, 727 Twenty-first Street. Named in honor of William Staughton, the first President of the University (1821-1827).



- Stockton Hall, 720 Twentieth Street. Named in honor of the late Rear Admiral Charles Herbert Stockton, President of the University from 1913 to 1918. Offices, library, and lecture halls of the Law School.
- Strong Residence Hall for Women, 620 Twenty-first Street. Named in honor of the donor, Mrs. Henry Alvah Strong.
- Student Union, 2125 G Street.
- University Library, 2023 G Street. The gift of Abram Lisner, late Trustee of the University. The library; rooms of the Board of Trustees and the Graduate Council.
- Veterans' Club, 722 Twenty-second Street.
- Woodhull Building, 2133 G Street. Gift of the late General Maxwell Van Zandt Woodhull, former Trustee of the University. Office of the Director of Activities for Women; Placement Office; meeting rooms for student activities and the Columbian Women.
- Building A, 2026 G Street. Offices of the Department of Romance Languages.
- Building B, 2024 G Street. Laboratories and classrooms of the Department of Home Economics.
- Building C, 2029 G Street. Offices of the Registrar and the Director of Admissions; offices and laboratories of the departments of Biology, Botany, and Zoology; classrooms.
- Building D, 2013 G Street. Offices of the Dean of the Junior College, the Dean of Columbian College, the Dean of the Division of University Students, the Dean of the School of Education, and the Business Manager; offices of the departments of Art, Classical Languages, Education, English, Geography, Germanic Languages, Mathematics, Philosophy, Psychology, Secretarial Studies, and Sociology; classrooms.
- Building F, 2018 I Street. Offices of the Director of Alumni Relations and the Director of Public Relations.
- Building G, 712 Twentieth Street. Offices of the Department of English.
- Building H, 714-16 Twentieth Street. Offices and locker rooms of the Department of Physical Education for Women.
- Buildings J and L, 2131 and 2129 G Street (rear). Classroom and locker rooms of the Department of Physical Education for Women.
- Buildings M and N, 716-18 Twenty-first Street. Offices of the Dean of the School of Engineering and the Department of Civil Engineering.
- Building O, 2106 G Street. Office of the Department of Religion.
- Building P, 2108 G Street. Offices of the Student Health Service and the Dean of the Division of Special Students.
- Building Q, 2129 H Street. Office of the Director of Veterans Education.
- Building R, 2127 H Street. Offices of the Director of Activities for Men and the Athletic Staff.
- Building S, 2125 H Street. Residence Hall for Women.
- Building T, 717 Twenty-second Street. Offices of the Department of English.
- Building V, 2120 H Street (rear). Laboratories and classrooms of the Department of Physics.
- Building W, 2128 H Street. Offices of the School of Pharmacy; pharmacy laboratories; classrooms.
- Building X, 725 Twenty-third Street. Drafting rooms and classrooms of the School of Engineering.

#### THE UNIVERSITY LIBRARY

The University Library contains more than 165,000 volumes. The well equipped Library building houses all of the library except the law and medical collections. Over 5,000 bound volumes are added annually.



and approximately 750 periodicals and publications of learned societies are received currently. Among the special collections of the Library are the Richard Heinzel Collection of Germanic philology and literature; the Curt Wachsmuth Collection of Greek and Roman literature, archeology, and history; the Mount Vernon Collection on political history, international law, and the social sciences; a representative collection of Spanish American books, the gift of the governments of Hispanic America; the Chauncey Mitchell Depew Public Speaking Collection, the gift of the late Mrs. Depew; and the Art Collection, which contains about 1,000 volumes made available by the American Institute of Architects, and the 7,500 mounted photographs of the Russell Sturgis Collection.

#### OTHER LIBRARY FACILITIES

The student has access also to the Library of Congress; the Public Library of the District of Columbia and its branches; the Library of the Carnegie Endowment for International Peace; the Library of the Pan American Union; the Library of the Bureau of Railway Economics; the Library of the United States Department of Agriculture; the Library of the United States Office of Education; the Army Medical Library; the Library of the Smithsonian Institution; and many of the other great special collections of the government departments.

#### GOVERNMENTAL INSTITUTIONS ACCESSIBLE TO STUDENTS

The congress of the United States has made the scientific resources of the Government accessible to students under the terms of the following joint resolution, approved April 12, 1892:

*Resolved by the Senate and House of Representatives of the United States of America, in Congress assembled, That the libraries for research and instruction in the following and any other Governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:*

- One. Of the Library of Congress.
- Two. Of the National Museum.
- Three. Of the Patent Office.
- Four. Of the Bureau of Education.
- Five. Of the Bureau of Fishery.
- Six. Of the Army Medical Museum.
- Seven. Of the Department of Agriculture.
- Eight. Of the Fish Commission.
- Nine. Of the Botanic Garden.
- Ten. Of the Coast and Geodetic Survey.
- Eleven. Of the Geological Survey.

## ADMISSION

All departments of the University accept men and women.

Students may enter any college, school, or division of the University except the School of Medicine at the beginning of the fall term, the winter term, or any of the sessions of the summer term.

Entrance to the School of Medicine in 1948-49 is permitted only at the opening of the term beginning September 1948.

### GENERAL ADMISSION REQUIREMENTS

The following factors are considered in determining the eligibility of an applicant for admission:

1. The adequacy of previous academic work as preparation for the course of study now contemplated—including quantity and quality of work and the standing of the institution in which it was done.
2. The aptitude of the student for the course contemplated.
3. The character of the student.

The University reserves the right to refuse admission to any student who has a previous academic record of such grade as to create doubt of his ability to pursue college work successfully, or who for any other reason would not be a desirable student.

### APPLICATION FOR ADMISSION

An applicant for admission must obtain from the Office of the Director of Admissions an application blank which he must fill out completely and return with the application fee of \$3. A recent photograph, with signature, of the applicant must be attached to the blank.

*Applications should be filed not later than July 1 for the fall term, January 1 for the winter term, and May 1 for the summer term.*

*An applicant from a secondary school must send the high school record form provided by the University to his high school principal with the request that the principal fill out the form and mail it direct to the Office of the Director of Admissions.*

*An applicant who has previously attended an institution of higher learning must request the registrar of that institution to mail directly to the Office of the Director of Admissions a transcript of his record. If he has attended more than one such institution he must request the registrar of each institution to send to the Office of the Director of Admissions a transcript of his record, even though credits were not earned, together with an honorable dismissal from the institution last attended.*

The Graduate Record Examination sponsored by the Carnegie Found-

dation for the Advancement of Teaching is accepted as supplemental evidence of the applicant's educational attainment, and the appropriate report should accompany the application for admission whenever available.

## METHODS OF ADMISSION

### FROM SECONDARY SCHOOLS

An applicant from a secondary school may seek to qualify for admission by certificate or examination.

#### By Certificate

A certificate of graduation with a minimum of fifteen "units" \* from an accredited secondary school and the recommendation from the principal of the secondary school that the applicant is prepared to undertake college work will be considered subject to the following conditions:

1. If the school is accredited by the regional accrediting association, the student must rank not lower than the third fifth of his class.
2. If the school is not listed by the regional accrediting association, but has been accredited by the state accrediting agency, the student must rank in the upper two fifths of his class.

#### By College Entrance Board Examinations

An applicant may qualify by passing satisfactorily College Entrance Board examinations as prescribed by the Director of Admissions. These examinations are given at The George Washington University on June 5, 1948; August 18, 1948; January 15, 1949; April 9, 1949; June 14, 1949; and August 24, 1949.

Arrangements for the examinations should be made with the College Entrance Examination Board, Post Office Box 592, Princeton, N. J., not less than one month before the date of the examinations.

### FROM HIGHER INSTITUTIONS †

An applicant for advanced standing may be considered for admission upon the presentation of satisfactory credentials from an accredited institution of higher learning. The student must be in good standing as to scholarship and conduct, and must be eligible to return to the previously attended institution in the term for which he seeks admission to this University.

If the transcript of record from such an institution includes the record of his secondary school work, it is not necessary for the applicant to have

\* A unit represents a year's study in a secondary school subject, including in the aggregate not less than 120 satisfactory periods of prepared laboratory work.

† The University reserves the right to refuse admission credit in whole or in part, or to allow it provisionally. Credit so given may be withdrawn for subsequent poor work.



forwarded a separate record directly from the principal of the secondary school. **High school work is considered only as fulfilling entrance requirements; it is never credited toward advanced standing.**

Properly certified courses taken at accredited colleges or universities may be applied toward a degree at this University, subject to the curriculum requirements and regulations of the school or college to which admission is sought. Work of low pass grade (such as *D* or the equivalent) may not be considered for transfer.

## ENTRANCE REQUIREMENTS

### THE JUNIOR COLLEGE

An acceptable certificate of graduation from an accredited secondary school, or the satisfactory passing of College Entrance Board examinations selected with the approval of the Director of Admissions is required. (See "Methods of Admission".)

*Distribution of Units for All Curricula except Premedical.*—Except for admission to the premedical curriculum, certification by the principal that the student has satisfied all curriculum requirements of the school will be accepted in lieu of any prescribed distribution of units. Attention is called, however, to the necessity of completing stated prerequisite studies during the secondary school period for admission to certain curricula. It is to be noted that one unit of algebra is prerequisite to courses in chemistry, mathematics, physics, and statistics and that in addition one unit of plane geometry is prerequisite to courses in mathematics and physics. In the instance of applicants who do not meet the above stated mathematics requirements, algebra and plane geometry may be taken without college credit when offered by the Department of Mathematics. For a statement of the foreign language requirements see pages 54-55.

*Distribution of Units for the Premedical Curriculum.*—The several state medical boards govern the granting of licenses to practice; hence their requirements as to high school credits must be met exactly. The fifteen units required must include three in English, two in one foreign language, one in algebra, one in geometry, one in history, and one in science (botany, chemistry, physics, or zoology). Eleven of the units offered must be in the above subjects.

### COLUMBIAN COLLEGE (THE SENIOR COLLEGE)

#### For the Bachelor's Degrees

Two years of Junior College work leading to the degree of Associate in Arts, or the lower division work in institutions not organized on the junior-senior college plan, following a specified curriculum, meet the



minimum requirements of Columbian College. In addition, however, scholarship requirements for admission may be set somewhat higher than those for graduation from the Junior College.

*Bachelor of Arts.*—An Associate in Arts degree based on the *Arts and Letters* curriculum in the Junior College, or the equivalent (see pages 55-56), is required.

*Bachelor of Science.*—An Associate in Arts degree based on the *Science* curriculum in the Junior College, or the equivalent (see page 56), is required.

#### For the Master's Degrees

An approved Bachelor's degree from an accredited higher institution is required. A student from an unaccredited institution may be admitted at the discretion of the Committee on Admission and Advanced Standing, but he will be required to take such extra work above the minimum requirements as may be prescribed. A superior quality of work in the major field is essential.

Applications for admission must be approved by the department or division and by the Dean.

*Master of Arts.*—The student's undergraduate curriculum must include a program of study substantially equivalent to a major in his chosen field, together with an appropriate distribution of courses in other fields, or he must complete this prerequisite work in addition to that required for the Master's degree.

*Master of Science.*—The student's undergraduate curriculum must include the equivalent of the undergraduate major of the scientific department under which he desires to work.

#### THE GRADUATE COUNCIL

*Doctor of Philosophy.*—The student must possess an adequate academic preparation for advanced study in the proposed field, as evidenced by approved Bachelor's and Master's degrees, or the equivalent, together with acceptable personal qualities and capacity for creative work.

#### THE SCHOOL OF MEDICINE

*Doctor of Medicine.*—Ninety credit hours of work, exclusive of physical education, in an accredited higher institution are required. Premedical college requirements must be completed (see page 57).

#### Specific Educational Requirements

##### SECONDARY SCHOOL REQUIREMENTS

Of the fifteen secondary school units required, three must be in English, two in one foreign language (ancient or modern), one in algebra,

one in geometry, one in history, and one in science (botany, chemistry, physics, or zoology). Eleven of the units offered must be in English, foreign language, mathematics, science, and history.

#### PREMEDICAL COLLEGE REQUIREMENTS

##### NINETY CREDIT HOURS

1. Chemistry, sixteen credit hours as follows: (a) eight hours in general inorganic chemistry, of which at least four credit hours are laboratory work (qualitative analysis may be counted as general inorganic chemistry); (b) eight credit hours of a one-year college course of organic chemistry, including laboratory work.

2. Physics, eight credit hours, of which at least two credit hours are laboratory work. It is recommended that this course be preceded by one in trigonometry.

3. Biology, eight credit hours, of which at least four credit hours are laboratory work. This requirement may be satisfied by a course of eight credit hours in either general biology or zoology, or by four credit hours each in zoology and botany, but not by botany alone.

4. English composition and literature, six credit hours: the usual introductory college course or the equivalent. The student should develop facility in speaking and writing English.

5. Modern foreign language: a reading knowledge, preferably of French or German.

6. Electives. It is recommended that the remaining credit hours required include: (a) comparative vertebrate anatomy; (b) qualitative and quantitative chemical analysis; (c) social science and psychology.

#### Advanced Standing

A student who has satisfactorily attended one or two years at any other "class A" medical school, and who has the necessary preliminary educational requirements, may be admitted to advanced standing.

#### THE LAW SCHOOL

##### For the Degrees in the Professional Course

*Bachelor of Laws\** and *Juris Doctor*†.—A Bachelor's degree awarded upon completion of a four-year course in an approved college or university is required.

\* No less than one-half the work necessary for graduation from an approved college or university will be accepted as equivalent to the minimum requirements for (1) regular standing at the University of continuous attendance since the 1917 winter term, (2) application for the degree of Bachelor of Laws or Master of Laws who have completed not less than 20 months of continuous service in the armed forces of the United States during World War II. † A Bachelor's degree which includes credits or work done in this or any other Law School will not satisfy the admission requirement for this degree. All pre-law work must be of a quality and distribution acceptable to the University.

## ADVANCED STANDING

Advanced standing toward the degree of Bachelor of Laws may be granted only for work successfully completed in other Law Schools which are members of the Association of American Law Schools.

Advanced standing toward the degree of Juris Doctor will not be granted for work in other law schools.

## For the Degrees in the Graduate Course

*Master of Laws.\**—A bachelor's degree awarded upon the completion of a four-year course in an approved college or university and the degree of Bachelor of Laws, or the equivalent, from an approved law school are required.

*Master of Comparative Law.*—The following are required: (1) the successful completion of and graduation from a course in arts, philosophy, letters, or sciences, equivalent to graduation from a gymnasium, lycee, or liceo (junior college); and (2) graduation in law from a recognized foreign university where training was in Civil Law.

*Doctor of Juridical Science.*—The following are required: (1) the degree of Juris Doctor from this Law School; or (2) the degree of Bachelor of Arts from an approved college, the degree of Bachelor of Laws or the equivalent, earned with high rank, from an approved law school, outstanding capacity for scholarly work in the field of law, and acceptance as a candidate by the Dean's Council of the Law School.

## Unclassified Students

A person eligible for admission to regular standing but not a candidate for a degree may, at the discretion of the Dean, be admitted as an unclassified student.

A person who is in good standing as a candidate for a degree in another approved law school may, at the discretion of the Dean, be admitted as an unclassified student. Work taken by an unclassified student will not be accepted for credit toward a degree at this Law School.

## THE SCHOOL OF ENGINEERING

*Bachelor of Civil Engineering, Bachelor of Electrical Engineering, Bachelor of Mechanical Engineering, Bachelor of Science in Engineering.*

—An acceptable certificate of graduation from an accredited secondary

\* No less than one-half the work necessary for admission to the graduate course in law may be accepted as satisfactory to the University. The following are accepted: (1) the degree of Bachelor of Arts from an approved college; (2) the degree of Bachelor of Laws or the equivalent, earned with high rank, from an approved law school; (3) the degree of Juris Doctor from this Law School; (4) the degree of Juris Doctor from an approved law school.



school, or the satisfactory passing of College Entrance Board examinations in secondary school subjects selected with the approval of the Director of Admissions is required.

Nine and one-half of the fifteen units required for entrance must be distributed as follows: three in English, two in algebra, one in plane geometry, one-half in plane trigonometry, one in physics or chemistry, and two in one foreign language or history. A graduate of an approved high school who does not offer for admission the particular subjects required for the engineering curriculum, but who does present not less than fifteen acceptable units, may be admitted on condition, if such deficiency in the distribution of units does not exceed two units.

#### ADVANCED STANDING

Advanced standing may be granted for work successfully completed at accredited institutions or higher learning. Credit will be assigned by the School of Engineering to the extent that the work taken at previous institutions meets the requirements for the degree sought at this University, and subject to the general University regulations concerning satisfactory subsequent work.

#### THE SCHOOL OF PHARMACY

*Bachelor of Science in Pharmacy.*—An Associate in Arts degree based on the curriculum in *Pharmacy* in the Junior College (see page 57), or the equivalent is required.

A student who has received a Bachelor's degree from an accredited institution or who has completed work in the general cultural or foundational subjects of the pharmacy curriculum may be admitted to advanced standing. No more than one year of advanced standing will be granted a student from any institution other than an accredited college or pharmacy.

*Master of Science in Pharmacy.*—A Bachelor of Science degree from an accredited institution is required.

#### THE SCHOOL OF EDUCATION

##### For the Bachelor's Degrees

*Bachelor of Arts in Education. Bachelor of Science in Home Economics. Bachelor of Science in Physical Education.*—An Associate in Arts degree based on the *Education, Home Economics, or Physical Education* curriculum in the Junior College (see pages 58-59), or the equivalent from another accredited higher institution, or a certificate of graduation from an approved normal school or the equivalent is required.



## For the Master's Degree

*Master of Arts in Education.*—A Bachelor's degree from an accredited institution, or the completion of a course of study that is the equivalent is required. A student from an unaccredited institution whose work is judged by the Faculty to be not more than twelve credit hours short of that required for an approved Bachelor's degree may remove his deficiencies while registered for the Master's degree.

## For the Doctor's Degree

*Doctor of Education.*—The degree of Master of Arts in Education or the equivalent, and at least three years of satisfactory educational experience are required.

## THE SCHOOL OF GOVERNMENT

## For the Bachelor's Degree

*Bachelor of Arts in Government.*—An Associate in Arts degree based on the *Accounting and Business Administration, Foreign Affairs, or Statistics* curriculum in the Junior College (see page 60), or the equivalent, and a quality-point index of 2.00 for the first two years' work are required.

## For the Master's Degree

*Master of Arts in Government.*—A Bachelor's degree from an accredited institution, or evidence of a course of study that is judged by the Faculty to be the equivalent is required. A student from an unaccredited institution may be admitted at the discretion of the Dean's Council, but he will be required to take such extra work above the minimum requirements as may be prescribed.

The Dean may permit deficiencies to be made up concurrently with work for the degree or by special examinations given under direction of a Faculty Committee. Students admitted to candidacy must have attained a quality-point index of 3.00 (a "B" average) in the course of their undergraduate major. In special cases students who have not attained this scholastic average may take a qualifying examination with permission of the Dean.

## THE DIVISION OF UNIVERSITY STUDENTS

Students 21 years of age or over who are not interested in working for a degree in this University may be considered for admission to the Division of University Students to take courses for which they have adequate preparation, as evidenced by previous scholastic records.

In special instances, with the permission of the instructor, a person may be considered for admission as an auditor in a class without being required to take active part in the exercises or to pass examinations, but no credit will be allowed for such attendance.

#### THE DIVISION OF SPECIAL STUDENTS

This is a non degree-granting division of the University in which the Director of Admissions may authorize the placement of students in the process of making up entrance deficiencies to degree-granting colleges and schools of the University.

Complete credentials must be submitted and evaluated before a tentative or definite plan of make-up may be prepared.

#### CLASSIFICATION OF STUDENTS

##### REGULAR STUDENTS

Regular students are those who have met the entrance requirements for candidacy and are registered for certificates or degrees.

##### UNIVERSITY STUDENTS

Persons of mature age, as specified in the rules of the Division of University Students, may be admitted to this Division to pursue courses for which they have had adequate preparation.

##### SPECIAL STUDENTS

Special students are those who are in the process of qualifying for admission to curricula in degree-granting colleges and schools of this University.

Additional information concerning curricula, courses offered, entrance requirements, or admission procedure may be obtained from the Office of the Director of Admissions.

## REGISTRATION

Before a student may be admitted to registration he must have satisfied the Office of the Director of Admissions that he is qualified for entrance to the University. (See "Admission", pages 10-18.)

A student who has previously matriculated in the University, but who has not been in attendance during the term prior to registration, should file an application for readmission in advance of registration.

Registration is for the term unless otherwise indicated on the registration paper. No registration is accepted for less than a term or one summer session.

A student may not register concurrently in The George Washington University and another institution without the permission of the dean of the college, school, or division in which he is registered in The George Washington University. Allowance of credit for work done concurrently will be at the discretion of the appropriate Committee on Admission and Advanced Standing.

### TIME AND PLACE OF REGISTRATION \*

Registration is conducted during the following periods: *fall term*, September 29 and 30 for students registered for the winter or summer term of 1948, October 1 for new students; *winter term*, January 3 and 4 preregistration for students registered for the fall term of 1948, February 4 for new students. Registration, except for the Law School, is conducted in Building C, 2029 G Street NW.; for the Law School, in Stockton Hall, 720 Twentieth Street NW.

### REGISTRATION CHANGES AND WITHDRAWALS

For regulations governing changes in registrations and withdrawals, see pages 22, 35, and 36.

\* Registration for the School of Medicine is conducted at the School of Medicine, 1335 H Street NW., between 11:00 A.M. and 5:00 P.M., September 16 and 17, 1948.

## FEES AND FINANCIAL REGULATIONS

By authorization of the Board of Trustees, the following fees have been adopted:

### TUITION FEES

For each credit hour for which the student registers (except work taken by a candidate for a Doctor's degree)*.....	\$12.00
For the degree of Doctor of Medicine, for two terms†.....	6.00
For the degree of Doctor of Philosophy.....	
For work leading to and including the Council Fellowship examination§.....	36.00
For work leading to and including the final examinations§.....	36.00
For the degree of Doctor of Education.....	
For work leading to and including the general examination§.....	36.00
For work leading to and including the final examinations§.....	36.00
For the degree of Doctor of Jurisprud. Science.....	
For work leading to and including the final examinations§.....	36.00

### ADDITIONAL COURSE FEES

In certain courses additional fees, such as laboratory and material fees, are charged as indicated in the course description. These fees are charged by the term and, unless otherwise indicated, may be deferred in their payment, when the tuition is paid in this manner. Breakage of apparatus is charged against the individual student. When breakage is in excess of the normal amount provided for in the laboratory fee the individual student will be required to pay such additional charges as are determined by the department concerned.

### GRADUATION FEES

Wherein the degree of Associate in Arts is granted.....	\$10.00
Wherein a degree other than the Associate in Arts degree is granted.....	2.00
FEE FOR BINDING MASTER'S THESIS.....	4.00
FEE FOR THE PROFESSIONAL THESIS IN THE SCHOOL OF ENGINEERING.....	5.00

An annual fee; one half payable in advance at the time of each registration.

\* Payment of tuition for the thesis credits the candidate, during the academic year of registration, to the library and library of the faculty at the university. During the thesis year the student is given a thesis in addition to the additional preparation period. The student will be required to pay the preparation of the thesis against the normal amount. That of the preparation of the thesis is paid by the student at the time of registration.

† Registration in the School of Medicine is for a period of two terms. After the student has received the degree of Bachelor of Science in the School of Medicine, the student will be required to pay the preparation of the thesis against the normal amount. That of the preparation of the thesis is paid by the student at the time of registration.

§ When a student is registered in the School of Medicine, the preparation period at the university is given to the student at the time of registration. That of the preparation of the thesis is paid by the student at the time of registration.



FEE FOR PRINTING AND FILING SUMMARY OF DOCTORAL DISSERTATION . . . . . \$5.00

#### SPECIAL FEES

Application fee, charged all applicants for admission . . . . .	3.00
Late registration fee, charged each student who fails to register within the designated period . . . . .	5.00
Withdrawal fee, charged each student who preregisters and withdraws prior to the regular registration . . . . .	5.00
Service fee, charged each student for late payment of tuition (see "Payment of Fees") . . . . .	1.00
Reinstatement fee, charged each student who is reinstated after suspension for delinquency in fees . . . . .	5.00
Residence fee, charged each student wishing to maintain "in residence" status during any term of absence from the University . . . . .	12.00
For special physical examination . . . . .	2.00
Student Bar Association fee, charged each student in the Law School for each term or any part thereof except the summer term . . . . .	2.00
For examinations to qualify for advanced courses and for all special examinations . . . . .	5.00
Laboratory checkout fee, charged all students in Chemistry and pharmacy courses who fail to check out of the laboratory by the time set by the instructor . . . . .	2.00

Registration in the University entitles each student to the following University privileges: (1) the issuance of three certified transcripts of record, if and when desired; (2) the services of the Placement Office; (3) the use of University library facilities, except as otherwise designated; (4) gymnasium privileges; (5) admission to all athletic contests, unless otherwise specified; (6) subscription to the *University Herald*, the student newspaper; (7) admission to University debates; (8) medical attention and hospital services as described under the Department of Health Administration. These privileges, however, with the exception of the issuance of transcripts, terminate, and a student is no longer in residence, when he withdraws or is dismissed from the University.

#### PAYMENT OF FEES

All fees are payable at the Office of the Cashier, 725 Twenty-first Street NW. No student is permitted to complete registration or to attend classes until all fees are paid. Fees for each term are due and payable in advance at the time of registration.

In exceptional cases, subject to the approval of the Comptroller, the student may sign a contract for term charges, except for fees payable in advance, permitting payments as follows:

*Fall Term.*—One third at the time of registration; one third on November 3; one third on December 3.

*Winter Term.*—One third at the time of registration; one third on March 3; one third on April 4.

A student who fails to meet payments when due, but who pays his fees

on or before the tenth day of the month in which payment is due, is charged a service fee of \$1. A student who fails to meet payments by the tenth day of the month in which payment is due will be suspended and may not attend classes until he has been officially reinstated and has paid all accrued fees and a reinstatement fee of \$5.

A suspended student may not be reinstated for the term after two weeks from the date of suspension. Applications for reinstatement are to be made to the dean of the college, school, or division in which the student is registered.

An auditor pays all fees chargeable to the student registered for credit except the late-registration fee.

#### WITHDRAWALS AND REFUNDS

Application for withdrawal from the University or for change in class schedule must be made in person or in writing to the dean of the college, school, or division in which the student is registered. Notification to an instructor is not an acceptable notice (see "Withdrawal", pages 35 and 36).

In authorized withdrawals and changes in schedules, financial adjustments will be made as follows:

*Fall Term.*—Withdrawal dated on or before October 30, cancellation of two-thirds of tuition charges; withdrawal dated on or before November 30, cancellation of one-third of tuition charges. No refund or reduction will be allowed on a withdrawal dated subsequent to November 30.

*Winter Term.*—Withdrawal dated on or before February 28, cancellation of two-thirds of tuition charges; withdrawal dated on or before March 31, cancellation of one-third of tuition charges. No refund or reduction will be allowed on a withdrawal dated subsequent to March 31.

In no case will a refund be made of the first third of the total tuition charges unless the registration is in advance and the course is dropped before the regular registration day. In this case a withdrawal fee of \$5.00 is charged and tuition fees refunded. In no case will tuition be reduced or refunded because of nonattendance upon classes.

Payment applies only to the term for which a registration charge is incurred and in no case will this payment be credited to another term.

Any student in chemistry who fails to check out of the laboratory on or before the date set by the instructor, unless excused by the instructor, will be charged a checkout fee in the amount of \$2.00. A student who drops a course before the end of the term must check out of the laboratory at the next regular laboratory period.

Authorization to withdraw and certification for work done will not be given a student who has not a clear financial record.

## FELLOWSHIPS, SCHOLARSHIPS, PRIZES, LOANS

### FELLOWSHIPS

The following fellowships are available to graduate students. Applications should be submitted for consideration not later than April 1 preceding the period for which the fellowship is to be awarded.

The applicant for a **University Teaching Fellowship** or a **Special Fellowship** is expected to be a prospective candidate for the degree of Doctor of Philosophy, and to have the Master of Arts degree, or the equivalent, in the general field of his future doctoral study and research. Forms on which to make application for these fellowships may be obtained from the Chairman of the Graduate Council.

**University Teaching Fellowships.**—These are assigned for the academic year 1948-49 in the following departments of instruction: Bacteriology, Biochemistry, Botany, Chemistry, Economics, English, History, Physics, Psychology, Romance Languages, and Statistics. Each fellow receives an annual stipend, plus full tuition in the Graduate Council for whatever schedule of study or research his fellowship duties permit him to carry. The occupant of each of these fellowships renders a designated unit of service to the department of instruction in his major field of doctoral study, usually in classroom or laboratory assignments.

**Special Fellowships.**—A number of special fellowships are supported by endowment, and are awarded to doctoral students of unusual promise and ability. The stipend is not fixed but varies in amount with the need of the individual receiving the award. In applying for one of these fellowships it is advantageous that the student appear personally for an interview with the Chairman and such other members of the graduate Council as would be interested in the research investigations proposed. These fellowships include the following:

**Isabella Kino Research Fellowship.**—Of the value of \$1,200 annually, offered in the general field of biology, and intended to foster research for which the libraries and scientific establishments in Washington provide special facilities.

**Thomas Bradford Sanders Fellowships.**—Established by Miss Addie Sanders in memory of her brother, Thomas Bradford Sanders, and offered in various academic fields of study, with stipends designated by the Chairman of the graduate Council.



## SCHOLARSHIPS

Scholarships are awarded for two terms unless otherwise specified and are credited in equal parts for each term. Each holder must carry a full schedule of academic work (fifteen credit hours or in the professional schools the full prescribed schedule) during the period for which the scholarship is awarded. Except in the case of the Columbian Women's Scholarships, the High School Scholarships, the Order of the Eastern Star Scholarship, and the Trustee Scholarships, applicants must have established an academic record in courses at this institution and should apply on prescribed forms which must be filed in the Office of the Registrar not later than May 1 preceding the academic year for which the scholarship is to be awarded. Further information may be obtained from the Registrar of the University.

*American Foundation for Pharmaceutical Education.*—This scholarship, established by The American Foundation for Pharmaceutical Education, is awarded on recommendation of the Faculty of the School of Pharmacy to a competent and promising applicant in need of support to pursue the professional collegiate study of pharmacy. One scholarship in the amount of one hundred seventy-five dollars (\$175) is currently available.

*Byron Andrews Scholarship.*—This scholarship, in the amount of \$150, established in 1920 by Mrs. Belle Fisk Andrews in memory of her husband, Byron Andrews, is available "for ambitious and needy students, who desire to pursue courses in English, Latin, journalism, history, literature, or political science".

*Emma K. Carr Scholarships.*—Three scholarships in the amount of \$300 each and seven in the amount of \$100 each, established in 1932 by Mrs. Emma K. Carr, are awarded annually to "young men (of the white race) for undergraduate or postgraduate work, considering character, capacity, and need".

*Henry Harding Carter Scholarship.*—This scholarship, established in 1896 by Mrs. Maria M. Carter in memory of her husband, Henry Harding Carter, is of the annual value of \$150 and may be awarded to a deserving student who is preparing for the civil-engineering profession.

*Maria M. Carter Scholarship.*—This scholarship, in the amount of \$30 to be awarded annually to a young man, was given to the University in 1871 by Mrs. Maria M. Carter.

*Isaac Davis Scholarship.*—This scholarship, in the amount of \$30 to be awarded annually, was given to the University in October 1869 by the Honorable Isaac Davis, of Massachusetts. Nominations for the scholarship may be made "by the founder or his eldest lineal descendant".



In case no such nomination is made, the scholarship is to be awarded by the University.

*Charles Worthington Dorsey Memorial Scholarship.*—This scholarship, established as a memorial to Charles Worthington Dorsey, Bachelor of Laws, '81, Master of Laws, '82, is awarded upon the recommendation of the Faculty of the Law School to a needy and promising graduate of Columbian College or other division of the University, with a Bachelor of Arts or other equivalent degree, who has maintained an average of *B* as an undergraduate student and who desires to pursue the study of law as a full-time student. The scholarship covers tuition for the course leading to the first degree from the Law School, Bachelor of Laws or Juris Doctor, provided that the holder maintains an average of *B*. The right is reserved to suspend the benefits of the scholarship for cause at any time. The scholarship is awarded ordinarily once every three years.

*Robert Farnham Scholarship.*—This scholarship, in the amount of \$30 to be awarded annually to a student in Columbian College, was given to the University in 1871 by Mrs. Robert Farnham.

*Elma Lewis Harvey Scholarship.*—This scholarship, of the annual value of \$150, was founded in 1921 by Mrs. Emma Elizabeth Harvey in memory of her daughter, and is to be awarded every four years, or as often as vacant, to a young woman student in Columbian College of the Protestant faith and of the Caucasian race who shall be selected for scholarship and moral qualifications.

*High School Scholarships.*—Two University scholarships for study in the liberal arts, one for a man student, the other for a woman, are assigned for award to each of the following schools: Anacostia, Central, Coolidge, Eastern, McKinley, Roosevelt, Western, and Woodrow Wilson High Schools (District of Columbia); Bethesda-Chevy Chase High School (Maryland); Washington-Lee and George Washington High Schools (Virginia). The *Amos Kendall Scholarship*, established by the late Honorable Amos Kendall, is one of the two assigned to the Central High School. Each of the above scholarships is awarded annually, on the recommendations of a committee consisting of the Dean of the Junior College of The George Washington University, the principal of the high school concerned, and an alumnus of both the high school and the University, to a member of the graduating class who intends to enter the Junior College and to continue in Columbian College. A principal and an alternate may be recommended.

The holders of these scholarships are exempt from tuition fees, but are charged laboratory, graduation, and other fees. The scholarships are valid for eight terms. Beginning with the summer of 1942 the University expanded its program to permit a student to accomplish, during the summer, the work of a full term. As long as this accelerated pro-

gram is in force, the high school scholarships may be used during the summer which becomes a part of the regular academic year. In any case they must be used for no less than two terms during a calendar year. The principal, or, if the principal declines, the alternate, must register in either June or September following the award.

To retain any high school scholarship a student must carry a full program of study in the liberal arts (a full program being defined as at least fifteen hours of work each term), unless otherwise determined in individual cases by the Committee on Student Loans and Scholarships upon recommendation of the dean of the college concerned. An average of *B* and a high standard of deportment must be maintained. After registering, the holder of a high school scholarship is expected to complete four academic years in the University. If he fails to continue its use, the scholarship will not be reassigned.

*A. Morehouse Scholarship.*—This scholarship was established by Mr. A. Morehouse, in 1861. It carries an annual stipend of \$45, which is available for an undergraduate "intending to enter the Christian ministry".

*Newspaper Scholarships.*—Four scholarships are to be awarded each year to candidates recommended by the following newspapers: *The Washington Daily News*, *The Washington Post*, *The Evening Star*, and *The Times Herald*. These scholarships cover tuition for four years, but do not include laboratory fees, graduation fee, or other special fees.

*Order of the Eastern Star Scholarship.*—This scholarship in the amount of \$125 was established by the Order of the Eastern Star of the District of Columbia and is to be awarded to a woman of the order or to a daughter of a member in good standing.

*Paul Pearson Scholarship.*—This scholarship, established in 1940 by bequest of Paul Pearson and "to be known as the Dr. Paul Pearson award", is in the amount of \$85 to be awarded annually to a student in the School of Pharmacy.

*Lula M. Shepard Scholarship.*—This scholarship, established in 1946 by bequest of Lula M. Shepard, is in the amount of \$300 and is awarded annually to a "worthy Protestant student desiring to enter the Foreign Service Department of the School of Government".

*David Spencer Scholarship.*—This scholarship of approximately \$200 was established in 1918 by Miss Louisa J. Spencer.

*Mary Lowell Stone Scholarship.*—This memorial scholarship, established in 1893 is in the amount of \$60, to be awarded annually to a woman student of science in Columbian College.

*Charles Clinton Swisher Scholarship.*—This scholarship, established in 1941 by the late Professor Charles Clinton Swisher, is in the amount of \$250 and is awarded annually to a student of medieval history.

*Trustee Scholarships.*—Five scholarships are awarded each year, upon the recommendation of regional alumni clubs, to outstanding male graduates of accredited high schools. The scholarships cover tuition costs for four terms of full time work but do not include special fees such as laboratory charges, room, board, or other expenses. To retain the scholarship, the student must maintain a *B* average. Additional information may be obtained from the Alumni Secretary.

*William Walker Scholarship.*—This scholarship was established in 1824 by William Walker, Esq. It carries an annual stipend of \$75, which is available for an undergraduate intending to enter the Christian ministry.

*John Withington Scholarship.*—This scholarship was established in 1830 by the New York Baptist Theological Seminary. It has an annual stipend of \$60.

*Ellen Woodhull Scholarship.*—This scholarship, established by the late Ellen M. E. Woodhull, is in the amount of \$20, to be awarded annually to a student in Columbian College.

#### THE COLUMBIAN WOMEN SCHOLARSHIP FUNDS

The Columbian Women Scholarships are awarded by the Scholarship Committee of the Columbian Women. Applications for these scholarships should be addressed to the Chairman of the Scholarship Committee, the Columbian Women, The George Washington University, Washington 6, D.C., not later than May 15 preceding the academic year for which the scholarship is to be awarded; or, in the case of award for the winter term, not later than January 1.

*Nellie Maynard Knapp Scholarship Fund.*—The income from this fund of \$5,000, established in 1915 in memory of a former president, Mrs. Martin A. Knapp, is available for scholarships for women.

*Founders of Columbian Women Scholarship Fund.*—The income from this fund of \$5,000, established in 1920, is available for scholarships.

*Lillian Young Herron Scholarship Fund.*—The income from this fund of \$5,000, established in 1925 and named in 1930 in memory of a former president, is available for scholarships.

*Elizabeth V. Brown Scholarship Fund.*—This fund of \$1,200 was established in 1925 by the College Women's Club of Washington, D. C., in memory of the late Elizabeth V. Brown. The scholarship granted thereunder is available for a woman student in the School of Education.

*College Women's Scholarship Fund.*—The income from this fund of \$500, established in 1926 through the courtesy of the College Women's Club of Washington, D.C., is available for scholarship aid.

*Lewes D. and Myrtie H. Wilson Memorial Scholarship Fund.*—This fund of \$1,000 was established by Miss Elizabeth Wilson in 1926 as a



memorial to her parents, Lewes D. and Myrtie H. Wilson. The income is available for a scholarship in the School of Medicine.

*Grace Ross Chamberlin Scholarship Fund.*—The income from this fund of \$2,300, established in 1932 in honor of a former president, is available for scholarship aid.

#### PRIZES

*Alpha Chi Sigma Prizes.*—Alpha Pi Chapter of Alpha Chi Sigma Fraternity offers annually the following prizes:

A "Handbook on Chemistry and Physics" is awarded to each of the three students who carry at least eighteen credit hours during the freshman year and attain the highest averages in freshman chemistry.

The name and year of graduation of the student who has attained the highest quality point index in courses in chemistry will be inscribed on a bronze plaque. The winner of this award will have had at least sixteen hours of chemistry including the final semester at The George Washington University.

*Alpha Delta Pi Prize.*—Alpha Pi Chapter of Alpha Delta Pi Fraternity offers an annual prize of \$10 to the woman member of the junior class, with the most outstanding record in scholarship, extra-curricular activities, and service to the University.

*Alpha Kappa Psi Prize.*—Beta Mu Chapter of Alpha Kappa Psi Fraternity awards annually a medallion to the male student who has completed ninety credit hours at The George Washington University and has attained the highest average grade of the students enrolled in economics, business administration, public accounting, public finance, and foreign commerce.

*American Institute of Chemists Prize.*—The District of Columbia Chapter of the American Institute of Chemists offers an annual prize of a medal and junior membership in the American Institute of Chemists to that graduating student, majoring in chemistry, who excels in scholarship and in the personal qualities of integrity and leadership.

*Byrne Thurtell Burns Memorial Prize.*—This prize, in the amount of \$30, is awarded to the senior majoring in chemistry who shows the greatest proficiency in organic chemistry, as evidenced by a comprehensive examination, and who possesses such qualifications of mind, character, and personality as to give promise of future achievement.

*Chi Omega Prize.*—Phi Alpha Chapter of Chi Omega Fraternity offers annually a prize of \$25 to be awarded to the woman student in the graduating class with the highest record in the following social sciences: economics, sociology, political science, and history; combined with general excellence.

*Colonial Dames Prize.*—The Society of the Colonial Dames of America, Chapter III, offers annually a medal to be awarded to the student



who, having maintained a record of distinction in American history, submits the best essay upon a topic in Colonial history.

**John Henry Cowles Prizes.**—These prizes, founded in 1943 by John H. Cowles, Grand Commander of the Supreme Council of the Thirty-third Degree (Mother Council of the World) of the Ancient and Accepted Scottish Rite of Freemasonry, Southern Jurisdiction of the United States of America, are awarded annually to the two best scholars in the senior class of the School of Government. The prizes are as follows: first prize, \$60; second prize, \$30.

**DeWitt Clinton Croissant Prize.**—This prize, established by the late Professor DeWitt Clinton Croissant, consists of \$30, which is awarded annually to the undergraduate student who as a member of one of the University courses in drama or as a participant in University dramatics submits to the English Department the best essay on drama or the theatre.

**E. K. Cutter Prize.**—The E. K. Cutter Prize in English was established by the late Marion Kendall Cutter "for excellence in the study of English". An annual prize of \$30 is awarded to the member of the graduating class whose record in English, combined with general excellence, shows most marked aptitude for and attainment in English studies.

**Daughters of the American Revolution Prize.**—This prize, established by the Daughters of the American Revolution of the District of Columbia, consists of \$15, which is awarded annually to the student who, having maintained a record of distinction in American history, submits the best essay upon a topic in the period of the American Revolution.

**Isaac Davis Prizes.**—These prizes, established by the Honorable Isaac Davis, of Massachusetts, in 1847, are awarded annually to such members of the senior class as shall have made the greatest progress in public speaking during their connection with the University. The prizes are as follows: first prize, \$15; second prize, \$10; third prize, \$5.

The award of these three prizes is determined by a public speaking contest in which the participants deliver original orations. Only members of the senior class who are candidates for the degree of Bachelor of Arts or Bachelor of Science are eligible to compete.

**William Thornwall Davis Prize.**—This prize, established by the late Dr. William Thornwall Davis and consisting of monographs dealing with the field of ophthalmology, is awarded annually to the student doing the most outstanding work in ophthalmology.

**Delta Gamma Prize.**—The District of Columbia Alumnae Chapter of Delta Gamma offers annually a prize of \$25, to the woman in the graduating class who has achieved the highest scholastic average in her four year college course.

**Delta Zeta Prize.**—Delta Zeta Sorority offers annually a prize of \$10,

to be awarded to the student maintaining the highest average in the first year's work in botany.

**Ellsworth Prize.**—The Ellsworth Prize of \$25, established by the late Mr. Fritz von Briesen, is awarded to the student doing the best work in the subject of Patent Law Practice.

**Elton Prize.**—The Elton Prize, established by the Reverend Romeo Elton, of Exeter, England, consists of \$10, awarded annually to the senior student having the highest average in the Greek language and literature.

**Jess Frederick Essary Prize in Journalism.**—This memorial prize in the amount of \$100, established in 1948 by Helen Essary Murphy, is awarded annually to a student who has given promise of sound citizenship and ability in "forthright reporting" in student publication and/or under the jurisdiction of the Department of Journalism. The selection of the recipient will be made by a committee composed of the President of the University and two members of the faculty.

**Joshua Evans III Prize in the Political and Social Sciences.**—This memorial prize in the amount of \$35, "established by friends because of an outstanding life", is awarded annually to that man in the graduating class of The George Washington University "who has demonstrated his signal ability in the social and political sciences and who has given promise of the interpretation of that ability in good citizenship among his fellows". The selection of the recipient will be made by the President of the University and a committee from the Faculty of the Division of the Social Sciences.

**Willie E. Fitch Prize.**—The Willie E. Fitch Prize established in 1883 by James E. Fitch, Esq., in memory of his son, consists of \$40, which is awarded annually to a senior student for the best examination in chemistry.

**Alice Douglas Goddard Prize.**—This prize of \$40 was established in 1941 by Frederick Joseph Goddard of Georgetown, D.C., in memory of Alice Douglas Goddard, and is awarded annually to the upper division student making the highest average in American literature.

**Edward Carrington Goddard Prize.**—This prize, consisting of \$40, was established in 1923 by Mary Williamson Goddard, Alice Douglas Goddard, and Frederick Joseph Goddard, of Georgetown, D.C., in memory of Edward Carrington Goddard, class of '81, and is awarded to the junior or senior student making the highest average in the French language and literature.

**James Douglas Goddard Prize.**—This prize, consisting of \$40, was established in 1923 by Mary Williamson Goddard, Alice Douglas Goddard, and Frederick Joseph Goddard, of Georgetown, D.C., in memory of James Douglas Goddard, class of '01, and is awarded to the senior student making the highest average in pharmacy.

**Morgan Richardson Goddard Prize.**—This prize, consisting of \$40, was established in 1923 by Mary Williamson Goddard, Alice Douglas Goddard, and Frederick Joseph Goddard, of Georgetown, D.C., in memory of Morgan Richardson Goddard, and is awarded to the junior or senior student making the highest average in the following fields: economics, business administration, foreign commerce, and public accounting.

**Gardiner G. Hubbard Memorial Prize in United States History.**—This prize of \$30 was established by Mrs. Gertrude M. Hubbard in memory of her husband, the late Gardiner G. Hubbard, and is awarded annually to that member of the graduating class majoring in history who has maintained the highest standing in courses in United States history.

**Kappa Kappa Gamma Prize.**—Kappa Kappa Gamma Sorority offers annually a prize of \$10 to the full-time freshman who achieves the best record in Botany 1 and 2.

**John Bell Lerner Prize.**—This prize, established by the bequest of John Bell Lerner, consists of a medal which is awarded annually to that member of the graduating class in the Law School who attains the highest average grade in the entire course for the degree of Bachelor of Laws.

**Mortar Board Prize.**—This prize, consisting of a silver cup, is awarded annually to the woman student in the sophomore class having a scholarship average of B or higher and the most outstanding record in activities.

**Omicron Delta Kappa Prize.**—Alpha Delta Circle of Omicron Delta Kappa Fraternity offers annually a plaque to be awarded to "that member of the senior class (of Columbian College) who throughout his course has done the most constructive work in the furtherance and upbuilding of the University student activities".

**John Ordronaux Prizes.**—These prizes were established in 1909 by the bequest of John Ordronaux.

The amount of \$70 is awarded to the member of the graduating class in the School of Medicine who has the highest scholastic standing.

The amount of \$35 is awarded annually to the student in the Law School who has attained the highest average grade in the first year, full-time, regular course; and \$25 to the student who has attained the highest average grade in the second year, full-time, regular course.

**Phi Eta Sigma Prize.**—The George Washington University Chapter of Phi Eta Sigma offers each year to the male student attaining the highest scholastic average in his first full term of work, a choice book selected from the field of the recipient's major interest. The winner's name will be engraved on a plaque in the Office of the Dean of the Junior College.

**Phi Sigma Kappa Prize.**—Phi Sigma Kappa Fraternity offers annually



a silver cup to the winner of an oratorical contest, open to all freshmen.

*Pi Beta Phi Prize.*—A prize of \$20 is awarded annually by the District of Columbia Alpha Chapter of Pi Beta Phi Fraternity to the woman member of the senior class who throughout her college course has done the most constructive work in the promotion of sisterhood activities among the women of the University.

*Ruggles Prize.*—The Ruggles Prize, established by Professor William Ruggles in 1859, consists of \$15 awarded annually to a candidate for a baccalaureate degree for excellence in mathematics.

*Sigma Kappa Prize.*—Zeta Chapter of Sigma Kappa Sorority offers an annual prize of \$10 to the student who passes the best examination in General Chemistry.

*Sigma Tau Prize.*—Xi Chapter of Sigma Tau Fraternity offers annually a medal to be awarded to that member of the freshman class in the School of Engineering who maintains the highest scholastic standing in the work of the entire year.

*Staughton Prize.*—The Staughton Prize, established by the Reverend Romeo Elton, consists of \$10 awarded annually to the senior student making the best record in the Latin language and literature.

*James MacBride Sterrett, Jr., Prize.*—This prize, established in 1911 by Professor James MacBride Sterrett in memory of his son, consists of books awarded annually to that student who obtains the highest average in Physics 6, 7, and 8.

*Charles Clinton Swisher Historical Club Prize.*—This prize, established in 1936 by the Charles Clinton Swisher Historical Club and augmented in 1942 by the bequest of the late Professor Charles Clinton Swisher, is an annual prize of \$30 awarded to the student who submits the best essay covering some phase of medieval history.

*Theta Tau Activities Plaque.*—Gamma Beta Chapter of Theta Tau Fraternity offers annually a plaque to be awarded to that member of the senior class who has the most outstanding record in activities in the School of Engineering during the entire period of his attendance.

*United Daughters of the Confederacy Prize.*—This prize, established in 1946 by the General Lewis A. Armistead Chapter, number 2136, United Daughters of the Confederacy, consists of \$25, which is awarded annually to the student showing the greatest proficiency in the history of the Southern States.

*Thomas F. Walsh Prize.*—This prize, established in 1901 by Thomas F. Walsh, consists of \$30 awarded annually to that student who submits the best essay in Irish history.

*Alexander Wilbourne Weddell Prize.*—From a fund established in 1923 by Mrs. Virginia Chase Weddell, an annual prize of \$150 is awarded to a candidate for a degree who writes the best essay on the subject of "the promotion of peace among the nations of the world".



The prize essays shall become the property of the University and shall not be printed or published without the written consent of the University. The University reserves the right to withhold the award if no essay attaining the required degree of excellence is submitted.

#### LOAN FUNDS

The following loan funds are available to students in the University in accordance with the qualifications placed thereon by the donors. Inquiries should be directed to the Office of the Comptroller.

*University Student Loan Fund.*—The Trustees of The George Washington University have established a loan fund amounting to \$10,000.

*Daughters of the American Revolution Loan Fund.*—The District of Columbia Chapters of the Daughters of the American Revolution have established an endowment fund of \$5,000, the income (\$2,475.25) of which is available for interest-bearing loans to descendants of patriots of the American Revolution.

*Home Economics Loan Fund.*—This fund in the amount of \$307.35, contributed by the D. C. Home Economics Association, is available for loans to senior girls majoring in Home Economics.

*Kellogg Medical School Loan Fund.*—The W. K. Kellogg Foundation in Battle Creek, Michigan, has established a fund in the amount of \$15,483.90 for loans to students in the School of Medicine.

*Knights Templar Educational Loan Fund.*—This fund, contributed and administered by the Grand Commandery of Knights Templar of the District of Columbia, is available for loans to students, preferably in the upper classes, who are residents of the District of Columbia.

*Law Association Loan Fund.*—The George Washington Law Association has established a loan fund in the amount of \$768 for loans to students in the School of Law.

*Henry Strong Educational Foundation.*—The Henry Strong Educational Foundation, established at Chicago under the will of General Henry Strong, makes available a fund for loans to both men and women students under the age of twenty-five years.

*Henry Strong-William A. Maury Loan Fund.*—This fund, also allocated from the funds of the Henry Strong Educational Foundation, is to be loaned to students under the age of twenty-five years in the George Washington University Law School.

*Sutherland Medical School Loan Fund.*—This fund, in the amount of \$1,200 and established by Mrs. Rose L. Sutherland, is available for loans to students in the School of Medicine.

## REGULATIONS

A student enrolled in the University is required to conform to the University regulations and to comply with the rules and regulations of the college, school, or division in which he is registered.

If a student knowingly makes a false statement or conceals material information on an application for admission, registration card, or any other University document, his registration may be canceled and he will be ineligible (except by special action of the Faculty) for subsequent registration in any unit of the University.

### ATTENDANCE

A student is not permitted to attend classes until registration has been completed and fees due have been paid. Regular attendance is required. A student may be dropped from any course for undue absence. Tuition will not be refunded or reduced because of non-attendance.

A student who has been suspended, either for delinquency in payment of fees or for any other reason, is not permitted to attend classes during the period of suspension.

For further regulations regarding attendance, consult the announcements of the several colleges and schools.

### CONTINUOUS REGISTRATION

A student who withdraws or is suspended, or is otherwise absent from the University for one term or more, may re-enter and continue his work only under the rules and regulations in force at the time of his return. With the approval of the dean of the college or school concerned, a student may be granted leave of absence; such student should, however, remain technically in residence by paying the residence fee for each term he is absent.

For the purpose of this regulation, the summer sessions will not be considered a term.

### SCHOLARSHIP REQUIREMENTS

A student who fails to maintain the scholarship requirements of the college, school, or division in which he is registered may be dismissed from the University.

### GRADES

Grades are not given out by instructors but are mailed to the student through the Office of the Registrar at the close of each term. Upon

request, a copy of the student's grades will be forwarded to his parent or guardian.

The following grading system is used: *A*, excellent; *B*, good; *C*, average; *D*, passing; *F*, failing; *Inc.*, incomplete (The grade "Incomplete" is a temporary grade assigned when all the required work of a course has not been completed and a satisfactory explanation has been given to the instructor.); *W*, withdrawn (*W* is followed by a letter grade indicating the quality of work the student was doing at the time of withdrawal); *FW*, failure for unauthorized withdrawal. (See "Withdrawal", below.) A course failed must be repeated with a passing grade in order to be credited. No student may repeat for credit a course in which he has received a grade of *D* or above. A grade of "incomplete" cannot be altered after the lapse of one calendar year except by action of the Faculty.

For graduate work, grades are indicated as "satisfactory", "unsatisfactory", or "incomplete".

For the grading systems of the Law School and the School of Medicine, see the explanations in the announcements of those schools.

#### QUALITY-POINT INDEX

Quality points are computed from grades as follows: *A*, four points; *B*, three points; *C*, two points; *D*, one point; *F*, no points, for each credit hour for which the student has registered.

Scholarship is computed in terms of the quality-point index, obtained by dividing the number of quality points by the number of credit hours for which the student has registered, both based on the complete collegiate record. Courses marked *W* or *Inc.* are not considered in determining the index.

#### EXAMINATIONS

Examinations are scheduled in all courses at the end of each term or at the completion of the course.

A student guilty of dishonesty in examinations may be deprived of credit for the courses in which dishonesty occurs and may be dismissed from the University.

For further regulations regarding examinations, consult the announcements of the several colleges, schools, and divisions.

#### WITHDRAWAL

A student who is obliged to withdraw from the University or from a course must immediately notify the dean of the college, school, or division in which he is registered.

Withdrawal from a course or from the University, without academic



or financial penalty, requires the permission of the dean. Permission to withdraw from the University will not be granted a student who has not a clear financial record. (See "Fees and Financial Regulations", pages 20-22.)

Withdrawal between October 31 and the end of the fall term and between February 28 and the end of the winter term is permitted only in exceptional cases.

#### ACADEMIC AND FINANCIAL PENALTIES

*The grade of FW (failing) will be given in a course dropped without the approval of the dean.*

*All charges for courses dropped without the approval of the dean must be met by the student. Reporting the dropping of a course to an instructor does not effect its discontinuance.*

#### CHANGES IN PROGRAM OF STUDIES

A student may not change or drop (see "Withdrawals", above) courses or change his status to that of auditor except with the approval of the dean of the college, school, or division in which he is registered, upon presentation of adequate reasons for such changes.

Change from one section to another of the same course or from one major subject to another within the same college or school may be made with the approval of the dean. All requirements specified in the course of study to which the change is made must be satisfied before graduation.

Transfer from one college, school, or division to another may be made only with the approval of the deans concerned. Applications for such change should be made on the proper form, obtainable in the Office of the Director of Admissions, where it should be filed.

#### CREDIT

Credit toward a degree is given only after regular registration for and satisfactory completion of the required work of classes in the University, or upon the granting of advanced standing in accordance with the regulations of the several colleges, schools, and divisions.

On request the Registrar will issue to the student a balance sheet showing the amount of work completed and the amount necessary to complete the requirements for a degree.

In special instances, a person who has been admitted to the University may be registered, with the permission of the instructor, as an "auditor" in a class. An auditor is not required to take active part in the exercises or to pass examinations, but no credit will be allowed for such attendance.



### TRANSCRIPTS OF RECORD

Official transcripts of student records will be forwarded on request to other institutions. Unofficial copies of records will be issued to the student on request. No charge is made for the first three transcripts; a fee of one dollar is charged for each one thereafter. No certificate of work done will be issued for a student who does not have a clear financial record.

### SUMMER SCHOOL CREDIT

A student who plans to attend summer school sessions at another institution with the intention of having credits so obtained apply toward graduation from this University must first secure the written approval of the dean of his college or school. In no event will such credits be recognized to an amount in excess of that which might be earned in a similar period in this institution.

### PHYSICAL EDUCATION REQUIREMENTS

Students in the Junior College and freshmen and sophomores in the School of Engineering are required to take Physical Education 1-2 and 11-12 unless they are registered for less than 9 credit hours or unless regular employment during the day makes it necessary to take all classes during the evening hours.

Any other exemptions will be granted only upon written petition which has been recommended by the physical education department concerned and approved by the dean of the college or school in which the student is registered.

A student entering the University with advanced standing is not exempt from the physical education requirements unless he has satisfactorily met the requirements elsewhere. Courses in military training are not accepted in satisfaction of these requirements.

The required medical and physical examinations, as specified by the departments of physical education, will be arranged at the time of registration.

### GRADUATION REQUIREMENTS

To be recommended for graduation a student must have met the admission requirements of the college or school in which he is registered, completed satisfactorily the scholarship, curriculum, residence, and other requirements for the degree for which he is registered, and be free from all indebtedness to the University.

*Application for Graduation.*—Application for a degree should be filed in the Office of the Registrar at the time of registration for the next

term of the senior or final year and may not be filed later than the date specified in the University calendar.

**Scholarship.**—In all undergraduate divisions of the University the scholarship requirement for graduation is a quality-point index of at least 2.00.

The graduate student must meet the scholarship requirements for the particular degree for which he is registered.

**Curriculum.**—Curriculum requirements for each degree are stated under the college or school offering work in preparation for the degree.

**Residence.**—In all undergraduate divisions of the University (except the Junior college where fifteen credit hours are ordinarily required) a minimum of one year, or thirty credit hours, must be completed in residence. Summer term work may be counted in residence, but in no case may the period of residence aggregate less than thirty weeks. Unless special permission is granted by the dean of the college or school concerned to pursue work elsewhere, the work of the senior or final year must be completed in residence.

The graduate student must meet the residence requirements for the particular degree for which he is registered.

**Attendance and Conduct.**—The University reserves the right to refuse to confer a degree upon a candidate whose attendance or conduct has been unsatisfactory.

**Thesis or Dissertation.**—A thesis or dissertation submitted in partial satisfaction of requirements for the Master's degrees, the professional degrees in engineering, the degree of Doctor of Education, or the degree of Doctor of Philosophy must be presented in its final form to the dean of the college or school concerned not later than the date specified in the University calendar. Three\* copies of each thesis or dissertation are required, one typewritten original and two legible and complete carbon copies. Detailed instructions for the styling of all theses and dissertations should be obtained from the appropriate dean.

Accepted theses or dissertations, with accompanying drawings, become the property of the University and are deposited in the University Library, where the duplicate copies are bound and made available for circulation. Permission to publish or adapt material in the thesis or dissertation must be secured from the appropriate faculty.

**Presence at Graduation.**—A candidate is required to be present at the graduation exercises unless written application for graduation in absentia is approved by the dean of his college or school.

#### HONORS

**With Distinction.**—In all undergraduate divisions of the University the degree may be conferred "with distinction", at the discretion of the

\* In the School of Education, four copies.

Faculty, if a student attains a quality-point index of 3.50 or higher on all work taken at this institution except that taken during the term immediately preceding the granting of the degree. To be eligible for this honor a student must have completed at this institution at least one-half of the work required for the degree.

*Special Honors.*—Special honors may be awarded by the Faculty to any member of the graduating class for outstanding achievement in the student's major field of work on recommendation of the major department, under the following regulations:

1. The student must have his candidacy for special honors approved by the faculty member representing the major department or field not later than the beginning of the senior year.

2. The student must meet such other conditions as may be set at the time his candidacy is approved.

3. No student will be awarded special honors unless he has a quality-point index of at least 3.00 on all work taken at this institution except that taken during the term immediately preceding the granting of the degree.

4. To be eligible for honors a student must have completed at this institution at least one-half of the work required for the degree prior to the beginning of the term immediately preceding the granting of the degree.

#### THE LIBRARY

A student registered in the University is entitled to the reference use of the University Library. The University Membership Card, issued upon the payment of fees, must be presented as identification.

Library books, with the exception of those in the Law and Medical collections, may be drawn for home use for a period of two weeks. Any book which does circulate is subject to recall by the Librarian at any time. Reserve books and periodicals for collateral reading must be used in the reading rooms when the Library is open. With special permission they may be drawn for overnight use when the Library closes. A fine of twenty-five cents will be charged for the first hour or fraction of an hour and five cents for each hour or fraction thereafter that a reserve book is overdue. Grades of a student will be withheld until his library record is clear.

#### HOURS

The University Library is open from 9:00 A.M. to 10:30 P.M. each class day (Saturday 9:00 A.M. to 5:00 P.M.), and from 2:00 to 6:00 P.M. on Sunday.

The Law Library is open from 9:00 A.M. to 10:00 P.M. each class day (Saturday, 9:00 A.M. to 5:00 P.M.), and from 2:00 to 6:00 P.M. on Sunday.



The Medical Library is open from 9:00 A.M. to 5:00 P.M. each class day (Saturday, 9:00 A.M. to 1:00 P.M.).

#### RIGHT TO DISMISS STUDENTS

The right is reserved by the University to dismiss or exclude any student from the University, or from any class or classes, whenever, in the interest of the student or the University, the University Administration deems it advisable to do so.

#### RIGHT TO CHANGE RULES

The University and its various colleges, schools, and divisions reserve the right to modify or change requirements, rules, and fees. Such regulations shall go into force whenever the proper authorities may determine.



## VETERANS EDUCATION

The Veterans Office of the George Washington University operates as a service bureau for veterans interested in studying at the University and acts in a liaison capacity between the University and the Veterans Administration. Here advice will be given concerning the educational program of the University and the procedure for securing the educational benefits of the "GI Bill".

Veterans who are undecided concerning vocational plans will be referred to the Counseling Center for expert vocational guidance by experienced counselors and psychometrists.

Special bulletins on veterans educational opportunities at The George Washington University may be obtained from the Admissions Office.

### AUTHORIZATION FROM THE VETERANS ADMINISTRATION

Prior to registration the veteran should obtain from the Regional Office of the Veterans Administration, 1825 H Street NW., a Certificate of Entitlement or, if entitled to vocational rehabilitation, a letter approving training under Public Law 16 for presentation to the Veterans Office of the University at the time of registration. A photostatic copy of separation papers must accompany the application for certification.

### ADMISSION

For veterans who are deficient in their regular requirements for admission, but who have been found by educational and psychological tests to be able to undertake college work, the University has made certain modifications in the entrance requirements. (For admission procedure, see pages 10-18.)

*Advanced Standing.*—To receive credit for service schools, veterans should submit to the Director of Admissions photostatic copies of service records indicating courses successfully completed with sufficient identification of the course to enable the Admissions Office to locate it in the Guide to the Evaluation of Educational Experience in the Armed Forces.

### CONTINUOUS REGISTRATION

By carrying a continuous program throughout the fall, winter, and summer terms, the veteran may complete a four-year college course in three calendar years with no interruption in his subsistence payments.

## STUDENT LIFE

### RELIGIOUS LIFE

The University recognizes the contribution that religion can make to the education of its students by encouraging them to participate in denominational clubs of their own choice. National Catholic, Hebrew, and Protestant bodies sponsor these religious organizations, which act as links between the University and the local churches. The Director of the University Chapel and the advisers to the various denominational organizations are available throughout the year for consultation on personal problems.

### UNIVERSITY CHAPEL

The University Chapel is maintained as a non-sectarian expression of the faith of the University in the contribution that religion can make to the education of its students. Twenty-minute services are held Friday of each week at 12:10 P.M. Representative clergymen of Washington are guest speakers at these non-denominational services.

### HEALTH ADMINISTRATION

The University maintains a hospital and a staff of medical officers with offices at the University.

Students are entitled to certain health services described under the Department of Health Administration.

### LIVING ACCOMMODATIONS

*Women Students.*—Women students under twenty-one years of age who are enrolled for twelve or more credit hours of academic work in the University must have their residences approved by the Director of Activities for Women before their registrations can be completed. In the women's residence halls, single rooms with breakfast and dinner are \$60 and \$65 a month; double rooms, with the same service, are \$53 and \$58 a month a person. Applications for rooms should be made well in advance. Forms for application, together with detailed information, may be obtained from the Director of Activities for Women.

*Men Students.*—A limited number of single and double rooms are provided for men students in temporary dormitories. Residence is restricted to veterans of World War II who are enrolled for a minimum of twelve credit hours of academic work in the University. Vacancies will be filled from the list of applicants in accordance with the date of application.

Single rooms are \$17 a month; double rooms are \$13 a month a person. Forms for application for room reservation may be obtained from the Director of Activities for Men.

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Information concerning private rooming and boarding facilities near the University for women students twenty-one years of age or older and for men students may be obtained at the offices of the Director of Activities for Women and the Director of Activities for Men, respectively. The reservation of rooms in private houses must be made by students.

#### PLACEMENT OFFICE

The Placement Office, in Columbian House, is maintained to assist graduates in finding positions for which their college work has prepared them.

#### STUDENT EMPLOYMENT

In addition an employment service is operated to assist the self-supporting student in finding full- or part-time employment.

The prospective student who expects to earn any part of his expenses and who does not have a definite appointment to a position before coming to Washington should have the means of support for at least one term.

Many out-of-town students secure positions in the departments of the Government in Washington by taking the United States Civil Service examinations in their home states.

#### VOCATIONAL COUNSELING

The Washington Counseling Center, established by the University, is at 720 Twentieth Street NW. The Center offers educational and vocational counseling service, advice on social and personal problems, a psychometric service in tests and measurements, and the use of files of occupational information and training opportunities.

#### STUDENT ACTIVITIES

Control and administration of all student activities are outlined in a separate bulletin.

#### ELIGIBILITY FOR STUDENT ACTIVITIES

Any student registered in The George Washington University who has a general average of not less than C (2.00) is eligible to participate in non-athletic student activities, subject to conditions specified by

the local or national organizations, approved by the Student Life Committee.

The rules and policies of the Southern Conference govern participation in inter-collegiate athletics.

#### RECOGNITION OF STUDENT ORGANIZATIONS

No student club or society (except social fraternities, sororities, scholastic honor societies, religious or professional clubs or societies) organized as a branch or affiliate of a non-George Washington University organization will be recognized by the Committee on Student Life.

#### PROPERTY RESPONSIBILITY

The University is not responsible for the loss, in any University building, of personal property belonging to a student.

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For further information, catalogues, and application blanks, address the Director of Admissions.



THE COLLEGES, SCHOOLS, AND DIVISIONS



## THE JUNIOR COLLEGE

### THE FACULTY AND STAFF OF INSTRUCTION •

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
 Myron Law Koenig, Ph.D., *Dean of the Junior College*  
 ‡William Lewis Turner, A.M., *Assistant Dean of the Junior College*  
 Katharine Rogers Adams, Ph.D., *Assistant Dean in the Junior College*  
 George Martin Koehl, A.M., *Assistant Dean in the Junior College*  
 Carr Bartleson Lavell, A.M., *Assistant Dean in the Junior College*

---

Thomas Benjamin Brown, Ph.D., *Professor of Physics*  
 Henry Grattan Doyle, A.M., LL.D., *Professor of Romance Languages*  
 Norris Ingersoll Crandall, M.Arch., *Professor of Art*  
 Edward Henry Schrt, Ph.D., *Professor of German*  
 Walter Lynn Cheney, Ph.D., *Professor of Physics*  
 Elmer Louis Kayser, Ph.D., LL.D., *Professor of European History*  
 Donnell Brooks Young, Ph.D., *Professor of Zoology*  
 Warren Reed West, Ph.D., *Professor of Political Science*  
 Ruth Harriet Atwell, A.M., *Professor of Physical Education for Women*  
 Francis Edgar Johnston, Ph.D., *Professor of Mathematics*  
 Benjamin Douglass Van Evera, Ph.D., *Professor of Chemistry*  
 Merle Irving Protzman, Ph.D., *Professor of Romance Languages*  
 Ralph Dale Kennedy, Ph.D., *Professor of Accounting and Business Administration*  
 Wood Gray, Ph.D., *Professor of American History*  
 Florence Marie Mears, Ph.D., *Professor of Mathematics*  
 Thelma Hunt, Ph.D., M.D., *Professor of Psychology*  
 Arthur Edward Burns, Ph.D., *Professor of Economics*  
 Ira Bowers Hansen, Ph.D., *Professor of Zoology*  
 Paul William Bowman, Ph.D., *Professor of Biology*  
 Lawson Edwin Yocum, Ph.D., *Professor of Botany*  
 John Withrow Brewer, Ph.D., *Professor of International Law*  
 Frances Kirkpatrick, A.M., *Professor of Home Economics*  
 Louis Clark Keating, Ph.D., *Professor of Romance Languages*  
 William Henry Myers, A.M., *Professor of Physical Education for Men*  
 Harold Loran Geisert, Ph.D., *Professor of Sociology*  
 Samuel Nathaniel Wrenn, Ph.D., *Professor of Chemistry*

\* The President of the University, the Dean and Assistant Deans in the College, the Registrar of the University, the Director of Admissions of the University, Professors, Adjunct Professors, Associate Professors, Assistant Professors, and Instructors constitute the Faculty.

† On leave of absence fall term, 1948-49.

Charles Rudolph Naeser, Ph.D., *Professor of Chemistry*

\*Howard Maxwell Merriman, Ph.D., *Professor of American Diplomatic History*

Ernest Sewall Shepard, A.M., *Professor of English*

George Winchester Stone, Jr., Ph.D., *Professor of English*

Charles Watson Bliven, M.S., *Professor of Pharmacy*

Alan Thomas Deibert, A.M., *Professor of Romance Languages*

Donald Stevenson Watson, Ph.D., *Professor of Economics*

Myron Law Koenig, Ph.D., *Professor of American History*

Calvin Darlington Linton, Ph.D., *Professor of English*

Donald Chenoweth Kline, B.Arch., *Associate Professor of Art*

John Francis Latimer, Ph.D., *Associate Professor of Classical Languages and Literatures*

Helen Bennett Lawrence, A.M., *Associate Professor of Physical Education for Women*

Irene Cornwell, Ph.D., *Associate Professor of French*

Kathryn Mildred Towne, A.M., *Associate Professor of Home Economics*

Antonio Alonso, A.M., *Associate Professor of Spanish*

Charles William Cole, Ph.D., *Associate Professor of American Literature*

Henry Goddard Roberts, A.M., *Associate Professor of Speech*

Gretchen Louisa Rogers, Ph.D., *Associate Professor of German*

Wolfram Karl Legner, Ph.D., *Associate Professor of German*

Joseph Henry Krupa, M.S., *Associate Professor of Physical Education for Men*

Elizabeth Burtner, A.M., *Associate Professor of Physical Education for Women*

Charles Edward Gauss, Mus.B., Ph.D., *Associate Professor of Philosophy*

George Martin Koehl, A.M., *Associate Professor of Physics*

Lubin Poe Leggette, A.M., *Associate Professor of Speech*

Robert Dale Campbell, A.M., *Associate Professor of Geography*

Lawrence Daniel Folkemer, Ph.D., *Associate Professor of Religion*

Robert Randal Meijer, Ph.D., *Associate Professor of Physics*

Robert Corbin Vincent, Ph.D., *Associate Professor of Chemistry*

Dorothy Helene Veon, A.M., Ed.D., *Assistant Professor of Secretarial Studies*

Edith Elizabeth Mortensen, Ph.D., *Assistant Professor of Zoology*

Averett Howard, A.M., *Assistant Professor of English*

Virginia Loretta Dennis, A.M., *Assistant Professor of Physical Education for Women*

Reuben Esselstyn Wood, Ph.D., *Assistant Professor of Chemistry*

Raymond George Hanken, B.S. in P.E., *Assistant Professor of Physical Education for Men*

\* On sabbatical leave 1948-49



Muriel Hope McClanahan, Ph.D., *Assistant Professor of English*  
 Calvin Weir Pettit, Ph.M., *Assistant Professor of Speech*  
 Carey DeWitt Eldridge, Ph.D., *Assistant Professor of Romance Languages*  
 Curtis Edward Tuthill, Ph.D., *Assistant Professor of Psychology*  
 Arthur Hoppe, M.S., *Assistant Professor of Education*  
 Nels David Nelson, Ph.D., *Assistant Professor of Mathematics*  
 Sam Clark Munson, M.S., *Assistant Professor of Biology*  
 Paul Edward Hanchett, Ph.D., *Assistant Professor of Economics*  
 Edwin Lockwood Stevens, A.M., *Assistant Professor of Speech*  
 Martin Steele Day, Ph.D., *Assistant Professor of English*  
 James Harold Coberly, A.M., *Assistant Professor of English*  
 Willard Caldwell, Ph.D., *Assistant Professor of Psychology*  
 Roderic Hollett Davison, Ph.D., *Assistant Professor of European History*  
 George Francis Henigan, Jr., Ph.M., *Assistant Professor of Speech*  
 Carr Bartleson Lavell, A.M., *Assistant Professor of Sociology*  
 Phyllis Annette Nichols, A.M., *Assistant Professor of English*  
 Vera Lillian Mowry, A.M., *Assistant Professor of English*  
 John Palmer Reesing, Jr., A.M., *Assistant Professor of English*  
 Earl Larkin Williams, A.M., *Lecturer in Mathematics*  
 Jacqueline Marie-Leonie Chevallaz, A.M., *Instructor in French*  
 Rafael Supervía, Doctor en Derecho, *Instructor in Spanish*  
 James Willard Harkness, B.S., Ed.M., *Instructor in Chemistry*  
 Ruth Elsie Jones, A.B., *Instructor in English*  
 Felicia Miller, A.M., *Instructor in Spanish*  
 Ruth Shryhock Nelson, A.M., *Instructor in English*  
 John Ettinger Tompkins, A.B., *Associate in Physics*  
 Thomas Arthur Wiggins, B.S. in Ed., *Associate in Physics*

COMMITTEES •

THE DEAN'S COUNCIL ‡

1949

Norris Ingersoll Crandall  
 Ira Bowers Hansen

1950

Thelma Hunt  
 Edith Elizabeth Mortensen

1951

Charles Edward Gauss  
 George Martin Koehl

• The President of the University and the Dean of the Junior College are members ex officio of all committees.  
 ‡ Elected by the Faculty.

## COMMITTEE ON ADMISSION AND ADVANCED STANDING

William Lewis Turner, *Chairman*

Donnell Brooks Young

Gretchen Louisa Rogers

Alan Thomas Deibert

Averett Howard

Carr Bartleson Lavell

## COMMITTEE ON SCHOLARSHIP

Katharine Rogers Adams, *Chairman*

Samuel Nathaniel Wrenn

Kathryn Mildred Towne

Donald Chenoweth Kline

Wolfram Karl Legner

Nels David Nelson

## JUNIOR COLLEGE ADVISORY COMMITTEE

Dean of the Junior College, *Chairman*

Samuel Nathaniel Wrenn

George Martin Koehl

Carr Bartleson Lavell

Katharine Rogers Adams

William Lewis Turner

## GENERAL INFORMATION

## INTRODUCTORY

The Junior College, which comprises the first two years of the standard four-year college program in the liberal arts and sciences, was established in 1930 as a part of the academic reorganization of the University. Prior to 1930, the four-year program had been administered by **Columbian College since its organization in 1821.**

The Junior College curricula continue the studies of a general cultural nature begun in the secondary schools, and lay a foundation for the more specialized work which is to follow. Emphasis is accordingly laid (1) upon the social, cultural, biological, and physical background of civilization (history, political science, physical and biological sciences, literature, etc.) and (2) upon the discipline necessary to the effective prosecution of more advanced work (English rhetoric and composition, foreign languages, mathematics, etc.).

The Junior College also provides the pre-professional work required for admission to the schools of Pharmacy, Education, and Government, and the first two years of the pre-professional work required by the schools of **Medicine and Law.**

In addition it provides two-year curricula in vocational training, leading to the degree of **Associate in Arts.**

## ADVISORY SYSTEM

In order that students may have opportunities for assistance in planning their courses and also for obtaining personal, educational, and vocational advice in every phase of their academic work during the first two years, a number of members of the Faculty serve as advisers to Junior College students.

Members of the Faculty, selected for their knowledge of Junior College requirements and student programs, advise students in making up their programs of study for each term. A separate staff of experienced advisers under the chairmanship of the Dean assists those students who find it difficult to make adjustments to college life because of scholastic or other reasons. Students who are "warned" or who are on probation may be required to consult these advisers at regular intervals. Students are encouraged to consult any member of the Advisory Staff or their instructors about college problems at any time.

Copies of notices of "warning" or probation will be sent to the parents or guardians of students on request, and the Dean and members of the Advisory Staff are available for consultation with parents or guardians concerning student problems.

## REGULATIONS

*Students in the Junior College are subject to, and are expected to familiarize themselves with, the regulations regarding ADMISSION, REGISTRATION, FEES AND FINANCES stated on pages 10-22, and the University regulations stated on pages 34-40.*

## SCHOLASTIC-APTITUDE TESTS

Students admitted to the Junior College may be required to take the scholastic-aptitude tests of the University.

## REQUIRED PLACEMENT EXAMINATIONS

*English.*—Special placement examinations, required of all entering freshmen, will be conducted by the English Department. Students registered in English 1 are tested in the minimum essentials of standard usage, vocabulary, writing skill, and reading speed and comprehension. Those students who show marked superiority may be exempted from one or both terms of the course; those who are inadequately prepared for the course will be assigned to English A.

*Romance Languages.*—A standardized placement examination will be required of all entering students who wish to continue in college the language begun in high school. Upon completion of the examination assignment will be made to the appropriate course with credit to be assigned on the usual basis. This does not apply to students whose pre-



vious experience in a given language is equivalent to two college years.

*The Use of Correct English.*—The use of correct English, oral or written, is required not only in English but also in all other courses (see page 72).

#### FIRST- AND SECOND-GROUP COURSES

A Junior College student may not take second group courses (courses numbered 101-200) without the written permission of the instructor and of the Dean of the Junior College. A student will not be permitted to postpone a first-group course, required under the curriculum for which he is registered, in order to take a second-group course for elective credit. The principle that first-group courses must be taken in the Junior College years, and advanced courses in Columbian College and the professional schools, will be rigidly adhered to in approving student programs. No student on probation is permitted to take second group courses except by the express permission of the Committee on Scholarship.

#### AMOUNT OF WORK

Fifteen or sixteen credit hours, not including required physical education, constitute normal work. A student not on probation may be permitted by the Dean to take seventeen credit hours.

A student having a quality-point index of 3.50 may, with the permission of the Dean, take eighteen or nineteen credit hours. No student may take more than nineteen credit hours, except with the permission of the Committee on Scholarship.

For an employed student working more than twenty-four hours a week, nine credit hours, not including required physical education, constitute normal work. An employed student not on probation may be permitted by the Dean to take ten credit hours. An employed student having a quality-point index of 3.50 may be permitted by the Dean to take twelve or thirteen credit hours.

A student previously unemployed who accepts employment subsequent to registration or at any time during a term is required to report that fact immediately to the Dean, to bring his program within the limitations set by the Faculty for the amount of work to be carried by an employed student.

#### ATTENDANCE

The student is held responsible to the instructor in charge of the course for which he is registered for all the work of the course, and all absences must be excused before provision will be made for him to make up the work missed.

With the exceptions noted below, occasional absences, not to exceed in number for each term the credit hours for the term, will be auto-



matically excused. (If a course has distinct divisions such as lectures, laboratories, recitations, etc., these excuses apply pro rata to such separate divisions.) In the application of this rule absences immediately preceding or following holiday periods are to be counted double.

Such automatic excuses are intended to cover the occasional minor exigencies and not to constitute an indiscriminate privilege. A student on probation is allowed no automatic excuses.

Excuses for absences from two or more consecutive class periods, and for absences from examinations which have been announced in advance, can be obtained only by making written application to the instructor in charge of the course.

A student whose absences from any class, whether excused or unexcused, are in excess of one-fourth of the total number of class periods will receive the grade of *F* for the course, except by special ruling of the Dean on recommendation of the instructor in the course.

#### CLASSIFICATION OF STUDENTS

A student who has satisfactorily completed at least thirty-two credit hours of work, including eighteen credit hours in his curriculum requirements, is classed as a *sophomore*.

### THE DEGREE OF ASSOCIATE IN ARTS

Upon the satisfactory completion of the requirements of the Junior College, the degree of Associate in Arts is conferred.

#### REQUIREMENTS FOR THE DEGREE

##### SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 34 and 35.

In order to receive the degree of Associate in Arts a student must have a quality-point index of at least 2.00.

*Honor Roll.* The name of every student who has a quality-point index of 3.50 or higher will be placed on the honor roll and published. No consideration is given to those who have completed a total of less than fifteen credit hours. A place on the honor roll does not necessarily mean that the student will receive honors upon graduation.

*Probation.*—A student must maintain a quality-point index of at least 2.00 or be placed on probation.

A student remains on probation as long as his quality-point index is below 2.00; however, the student who has a quality-point index between 1.50 and 2.00 will be considered by the Committee on Scholarship, which may retain him on probation or suspend him.

*Suspension.*—A student who has a quality-point index below 1.50 will be suspended; however, a student who has a quality-point index between 1.40 and 1.50 will be considered by the Committee on Scholarship, which may retain him on probation or suspend him.

A student who is subject to probation for the third time, whether successive or after an interval, will be suspended.

For the purpose of these rules, the work taken in the summer sessions is considered one term.

A student suspended for poor scholarship may apply for readmission after an interval of two terms. On application for readmission the student must submit specific evidence to the Committee on Scholarship that he is better qualified to pursue college work. A student suspended twice for poor scholarship will not be readmitted.

The foregoing scholarship rules are applied when a student has undertaken a minimum of 12 hours. Thereafter, the rules are applied in multiples of nine hours.

*Warnings.*—At stated intervals during the academic year instructors file in the Office of the Junior College the names of those students who are doing work of D grade or lower. A "warning" will then be sent to the student and a copy of the warning filed with the appropriate adviser. A "warning" constitutes notice to the student that he must consult his instructor and adviser at the earliest opportunity. "Warning periods" are established between the 7th and 8th weeks of the fall and winter terms. In the Summer Sessions the student should consult his instructors on the basis of his record in the courses concerned.

#### CURRICULUM REQUIREMENTS

The satisfactory completion of sixty credit hours of college work, exclusive of physical education, is required as outlined in one of the Junior College curricula described below.

Except for students registered for the combined degrees of Bachelor of Arts and Doctor of Medicine, not more than twelve credit hours of professional courses may be included in the one hundred and twenty credit hours required for the Bachelor's degrees in Columbian College. Junior College students electing professional courses under this rule must obtain the approval of the Dean of the Junior College.

*Physical Education Requirements.*—Physical education is required of all students in the freshman and sophomore years. (See "Physical Education Requirements", page 37.)

*Foreign Language Requirements.*—For the degree of Associate in Arts a student must have completed satisfactorily the equivalent of two years of college work in a single foreign language. (See "Placement Examinations", pages 51 and 52.)

A student offering for admission four acceptable high school units of a

single foreign language, or the equivalent, is not required to take any foreign language. If he offers three units, he must complete the second term of the second-year college course in the same language. If he offers two units, he must complete the entire second-year college course in the same language (except in the Pre-Pharmacy Curriculum, where he may substitute another language or elective). If he offers one unit, he must complete the second term of the first-year college course and the entire second-year course in the same language.

In some instances foreign languages are required or recommended as a preparation for advanced work in Columbian College and the professional schools. The student should consult his adviser as to these requirements, so that appropriate foreign languages may be included, when necessary, in his Junior College program.

#### Curricula for Admission to Columbian College and the Professional Schools

Each of the following curricula comprises the first two years of a standard four-year college course and prepares the student for upper division work. Requirements for graduation from the Junior College may not be the same as the requirements for admission to Columbian College or a professional school. Therefore, the student should consult the specific admission requirements of the college or school for which he is preparing.

The first sixty credit hours of the ninety required for admission to the School of Medicine are undertaken in the Junior College. Each premedical program must be approved by the premedical adviser.

#### COLUMBIAN COLLEGE:

##### 1. ARTS AND LETTERS\*

The following two-year curriculum prepares for the Bachelor of Arts program in Columbian College:

	Credit Hours
English .....	6
English 1-2 .....	6
English 51-52, 71-72, 91-92, Art 11-12, 71-72, Classical Languages 71-72, or Philosophy 51-52 .....	6

\* Students who have had high school courses in chemistry, mathematics, and physics should consult the description of the beginning courses in these fields. For the degree of Bachelor of Science, the student should obtain the advice of the major departments as to proper prerequisite and collateral courses for the intended major. Students who have had high school courses in chemistry, mathematics, and physics should consult the description of the beginning courses in these fields.



	Credit Hours
Foreign Language ... See pages 54-55 for foreign language requirement	12
Social Studies ..... Economics 1-2, History 39-40 or 71-72, Political Science 9-10, or Sociology 1, 2	6
Science ..... Biology 1-2, Botany 1-2, Chemistry 11-12 (12-21), Physics 5, 7 (5, 6), or Zoology 1-2	6 or 8
Physical Education ... See page 37 for statement of requirement.	
Elective	22 to 24
Total	60 or 62

## 1. SCIENCE\*

The following two-year curriculum prepares for the Bachelor of Science curriculum in Columbian College:

	Credit Hours
English ..... English 1-2	6
English 51-52, 71-72, 91-92, Art 11-12, 71-72, Classical Language 71-72, or Philosophy 51-52 (Elective if 6 hours of Social Studies are taken—see below)	6
Foreign Language ... French, or German or non-science elective	12
NOTE.—A reading knowledge of French or German is required. This may be satisfied by French 4 or German 4 or by special exam- ination.	
Mathematics ..... Mathematics 3, 6, or electives	6
NOTE.—The Mathematics 3 requirement may be satisfied by offering two years of high school algebra acceptable for admission; the Math- ematics 6 requirement may be satisfied by offer- ing one-half year of high school trigonometry acceptable for admission.	
Social Studies ..... Economics 1-2, History 39-40, 71-72, Political Science 9-10, or Sociology 1, 2 (Elective if 6 hours in the English, Art, Classical Lan- guages, Philosophy group are taken—see above)	6
Science ..... (a) Biology 1-2, Botany 1-2, Zoology 1-2 (b) Chemistry 11-12 (12-21), Physics 5, 7 (6, 7) (5, 6)	18 to 22
(In satisfying this requirement, at least one- year course must be taken in both groups a and b.)	
Physical Education .. See page 37 for statement of requirement.	
Elective	2 to 12
Total	60 to 64

\* Students who have had high school courses in chemistry, mathematics, and physics should consult the description of the beginning courses in these fields. For the degree of Bachelor of Science, the student should obtain the advice of the major departments as to proper pre-requisites and collateral courses for the intended major.



## SCHOOL OF MEDICINE:

A minimum of ninety credit hours is required for admission to the School of Medicine. The following premedical requirements must be met:

1. Chemistry, sixteen credit hours as follows: (a) eight credit hours in general inorganic chemistry, of which at least four credit hours are laboratory work (qualitative analysis may be counted as general inorganic chemistry); (b) eight credit hours or a one-year college course of organic chemistry, including laboratory work.

2. Physics, eight credit hours, of which at least two credit hours are laboratory work. It is recommended that this course be preceded by one in trigonometry.

3. Biology, eight credit hours, of which at least four credit hours are laboratory work. This requirement may be satisfied by a course of eight credit hours in either general biology or zoology, or by four credit hours each in zoology and botany, but not by botany alone.

4. English composition and literature, six credit hours: the usual introductory college course or the equivalent. The student should develop facility in speaking and writing English.

5. Modern foreign language: a reading knowledge, preferably of French or German.

6. Electives. It is recommended that the remaining credit hours required include: (a) comparative vertebrate anatomy; (b) qualitative and quantitative chemical analysis; (c) social science and psychology.

Elective courses should be selected so as to satisfy the requirements of one of the two curricula for admission to Columbian College.

## SCHOOL OF PHARMACY:

The following two-year curriculum prepares for the Bachelor of Science in Pharmacy curriculum in the School of Pharmacy:

	Credit Hours
English ..... English 1-2 .....	6
Foreign Language ... See pages 54-55 for foreign language requirement	6
Science ..... Botany 1*, Chemistry 11, 12, Zoology 1 (Freshman year) .....	15
..... Chemistry 21, 22, Physics 5, 6 (Sophomore year) .....	14
Physical Education.....	8
Curriculum Electives..... Pharmacy 1-2 (Freshman year) .....	4
..... Pharmacy 21-22, 23, 25, 26 (Sophomore year) .....	13
Elective .....	5
Total.....	69

\* Botany 2 may be substituted.

## SCHOOL OF EDUCATION:

## I. EDUCATION

The following two-year curriculum prepares for the Bachelor of Arts in Education curriculum in the School of Education:

	Credit Hours
English .....	English 1-2 .....
	English 51-52, 71-72, or 91-92 .....
Foreign Language ...	(French, German, Latin, or Spanish) .....
Social Studies .....	History 71-72 .....
	Economics 1-2; Geography 121-22; History 30-40; Political Science 9-10; or Sociology 1, 2. (Those offering for admission two or more acceptable senior high school units in the Social Studies may be exempted from this requirement) .....
Science and Mathematics .....	Two terms to supplement senior high school courses, selected from: Biology 1-2; Botany 1-2; Chemistry 11-12; Physics 5 and 6 or 7; Zoology 1-2; or Mathematics 3 and 6 or 6 and 12 .....
Other Courses .....	Psychology 1 and 22 .....
	Speech 11 or 21 .....
	Statistics 53 .....
Physical Education ..	See page 37 for statement of requirements .....
Electives .....	4 to 6 .....
Total .....	

## 2. HOME ECONOMICS

The following two-year curriculum prepares for the Bachelor of Science in Home Economics curriculum in the School of Education:

	Credit Hours
English .....	English 1-2 .....
	English 51-52, 71-72; Speech 21-22 (11, 21) .....
Foreign Language ...	(French, German, Latin, or Spanish) .....
Social Studies * .....	Economics, History, Political Science, or Sociology .....
Science .....	Chemistry 11-12 (Sophomore year) .....
Psychology .....	Psychology 1 .....
Physical Education ..	See page 37 for statement of requirements .....
Career Electives .....	Home Economics 1, 22 (Freshman year) .....
	Home Economics 51, 62 (Sophomore year) .....
Academic Electives ..	Freshman year .....
	(Sophomore year) .....
Total .....	

\* Courses selected with the recommendation of the student in the Department of Home Economics.

## 3. PHYSICAL EDUCATION FOR MEN

The following two-year curriculum prepares for the Bachelor of Science in Physical Education curriculum in the School of Education:

	Credit Hours
English ..... English 1-2 .....	6
Social Studies ..... History 39-40, 71-72, Political Science 9-11, or Sociology 1, 2 (Freshman year) .....	6
..... Economics, History, or Political Science (Soph- omore year) .....	6
Science ..... Biology 1-2 or Zoology 1-2 (Freshman year) ..	6 or 8
Physical Education .. See page 37 for statement of requirement.	
Curriculum Electives. Physical Education 42, 43-44, 47; Psychology 1, 22 (Freshman year) .....	14
..... Physical Education 45-46, 49, 58; Speech 21 (Sophomore year) .....	12
Elective ..... To satisfy minimum required credits (Soph- omore year) .....	
<hr/>	
Total .....	
Freshman year .....	12 or 14
Sophomore year .....	18

## 4. PHYSICAL EDUCATION FOR WOMEN

The following two-year curriculum prepares for the Bachelor of Science in Physical Education curriculum in the School of Education:

	Credit Hours
English ..... English 1-2 .....	6
..... English 51-52, 71-72, or 91-92 .....	6
Social Studies ..... History 39-41, 71-72, Political Science 9-11, or Sociology 1, 2 .....	6
Science ..... Biology 1-2 or Zoology 1-2 .....	6 or 8
Physical Education .. See page 37 for statement of requirement.	
Curriculum Electives. Physical Education 13-14 (Freshman year) ..	4
..... Physical Education 15-16, 18, 49, Psychology 1, 22 (Sophomore year) .....	16
Academic Electives. (Each year) .....	6 or 8
<hr/>	
Total .....	60 or 62

**SCHOOL OF GOVERNMENT:****1. ACCOUNTING AND BUSINESS ADMINISTRATION**

The following two-year curriculum prepares for the Bachelor of Arts in Government curricula in Accounting and in Business Administration in the School of Government:

	Credit Hours
Business Administration ..... Business Administration 51-52.....	6
English ..... English 1-2 .....	6
Foreign Language ... See pages 54-55 for foreign language requirement	12
Social Studies ..... Economics 1-2; History 39-40 or 71-72; Political Science 9-10.....	18
Statistics ..... Statistics 51, 52.....	6
Physical Education .. See page 37 for statement of requirement.	
Elective .....	12
Total.....	60

**2. FOREIGN AFFAIRS**

The following two-year curriculum prepares for the Bachelor of Arts in Government curriculum in Foreign Affairs in the School of Government:

	Credit Hours
English ..... English 1-2 .....	6
Foreign Language ... See pages 54-55 for foreign language requirement	12
Social Studies ..... Economics 1-2; History 39-40, 71-72; Political Science 9-10 .....	24
Mathematics, Science, Botany, Chemistry, Mathematics, Physics, Statistics, or Zoology.....	6 or 8
Physical Education .. See page 37 for statement of requirement.	
Elective ..... (To satisfy minimum required credits)	
Total.....	60 or 62

**3. STATISTICS**

The following two-year curriculum prepares for the Bachelor of Arts in Government curriculum in Statistics in the School of Government:

	Credit Hours
English ..... English 1-2 .....	6
Foreign Language ... See pages 54-55 for foreign language requirement	12
Social Studies ..... Economics 1-2; Philosophy 51-52.....	12
Mathematics ..... Mathematics 20 and prerequisites.....	3 to 12
Physical Education .. See page 37 for statement of requirement.	
Elective .....	18 to 27
Total.....	60



VOCATIONAL CURRICULA

In addition to the above curricula, all of which prepare for admission to upper division colleges and schools, the Junior College offers the following two-year terminal courses.

1. SECRETARIAL STUDIES

	Credit Hours
English ..... English 1-2 .....	6
..... English 51-52, 71-72, or 91-92.....	6
..... Secretarial Studies 51.....	3
Social Studies ..... Economics 1-2 .....	6
General ..... Speech 11 .....	3
..... Business Administration 51.....	3
Secretarial Skills * ... Secretarial Studies 1, 2, 11, 12, 15, 16, and 54..	21
Physical Education ... See page 37 for statement of requirement.	
Elective ..... (To be selected with approval of adviser).....	12
Total.....	60

2. ACCOUNTING

The required work may be completed in two years on a full-time basis or in three years on a part-time basis, with the approval of the adviser.

REQUIRED COURSES	Credit Hours
Business Administration 51-52...	6
Business Administration 101, 102	6
Business Administration 115.....	3
Business Administration 145.....	3
Business Administration 151-52..	6
Business Administration 153.....	3
Business Administration 155.....	3
Business Administration 165.....	3
Economics 1-2.....	6
Economics 121.....	3
English 1-2.....	6
Political Science 127.....	3
Political Science 128 .....	3
Physical Education	
See page 37 for statement of requirement	
Electives .....	6
(To be selected with the approval of the adviser.)	
Total.....	60

\* Qualified students, upon the approval of the Adviser at the satisfactory completion of a placement test, may waive Secretarial Studies 1, 11, and 12. Other courses approved by the Adviser, will be substituted.

### Examinations for Waving Curriculum Requirements\*

A Student desiring to omit a required course may take such examination as the department prescribes, and, on passing satisfactorily, he may be relieved of the curriculum requirements in that subject and may qualify for registration in an advanced course. Passing of this examination does not entitle the student to any hours of credit toward the degree. A student desiring to take such examinations should make written request of the Dean and pay the required fee at the Office of the Comptroller before the date of the examination specified in the University calendar.

### Honors

The degree of Associate in Arts may be conferred "with distinction" upon the student who has a quality-point index of 3.50 or higher, provided that student has been in residence at the University for 30 hours, 15 of which must have been taken in the Junior College at the time the index is calculated.

\* This provision does not apply to the premedical student, all of whose required premedical work must be taken in a recognized college of arts and sciences.

## COLUMBIAN COLLEGE

### THE FACULTY AND STAFF OF INSTRUCTION\*

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
 Henry Grattan Doyle, A.M., LL.D., *Dean of Columbian College*

---

Thomas Benjamin Brown, Ph.D., *Professor of Physics*  
 Henry Grattan Doyle, A.M., LL.D., *Professor of Romance Languages*  
 Joseph Hiram Roe, Ph.D., *Professor of Biochemistry*  
 Norris Ingersoll Crandall, M.Arch., *Professor of Art*  
 Colin Mackenzie Mackall, Ph.D., *Professor of Chemistry*  
 Edward Henry Sehr, Ph.D., *Professor of German*  
 Robert Whitney Bolwell, Ph.D., *Professor of American Literature*  
 Walter Lynn Cheney, Ph.D., *Professor of Physics*  
 James Henry Taylor, Ph.D., *Professor of Mathematics*  
 Elmer Louis Kayser, Ph.D., LL.D., *Professor of European History*  
 Errett Cyril Albritton, A.B., M.D., *Professor of Physiology*  
 Donnell Brooks Young, Ph.D., *Professor of Zoology*  
 Frank Mark Weida, Ph.D., *Professor of Statistics*  
 Warren Reed West, Ph.D., *Professor of Political Science*  
 Lowell Ragatz, Ph.D., *Professor of European History*  
 Francis Edgar Johnston, Ph.D., *Professor of Mathematics*  
 Benjamin Douglass Van Evera, Ph.D., *Professor of Chemistry*  
 †William Crane Johnstone, Jr., Ph.D., *Professor of Political Science*  
 §Mitchell Dreese, Ph.D., *Professor of Educational Psychology*  
 Leland Wilbur Parr, Ph.D., *Professor of Bacteriology*  
 Merle Irving Protzman, Ph.D., *Professor of Romance Languages*  
 Alva Curtis Wilgus, Ph.D., *Professor of Latin American History*  
 Wood Gray, Ph.D., *Professor of American History*  
 Florence Marie Mears, Ph.D., *Professor of Mathematics*  
 Thelma Hunt, Ph.D., M.D., *Professor of Psychology*  
 Arthur Edward Burns, Ph.D., *Professor of Economics*  
 Ira Bowers Hansen, Ph.D., *Professor of Zoology*  
 John Albert Tillema, Ph.D., LL.M., S.J.D., *Professor of Political Science*  
 Paul William Bowman, Ph.D., *Professor of Biology*  
 Lawson Edwin Yocum, Ph.D., *Professor of Botany*

\* The President of the University, the Dean of the College, the Registrar of the University, the Director of Admissions of the University, Professors, Assistant Professors, Associate Professors, and Assistant Professors, constitute the Faculty.

† On leave of absence 1942-43.

§ On sabbatical leave July 1941-1942-43.

- John Withrow Brewer, Ph.D., *Professor of International Law*  
 Louis Clark Keating, Ph.D., *Professor of Romance Languages*  
 Harold Loran Geisert, Ph.D., *Professor of Sociology*  
 Samuel Nathaniel Wrenn, Ph.D., *Professor of Chemistry*  
 Charles Rudolph Naeser, Ph.D., *Professor of Chemistry*  
 \*Howard Maxwell Merriman, Ph.D., *Professor of American Diplomatic History*  
 Ernest Sewall Shepard, A.M., *Professor of English*  
 George Winchester Stone, Jr., Ph.D., *Professor of English*  
 Fred Salisbury Tupper, Ph.D., *Professor of English*  
 Warren Andrew, Ph.D., M.D., *Professor of Anatomy*  
 Alan Thomas Deibert, A.M., *Professor of Romance Languages*  
 Chester Elwood Leese, Ph.D., *Professor of Physiology*  
 Donald Stevenson Watson, Ph.D., *Professor of Economics*  
 Myron Law Koenig, Ph.D., *Professor of American History*  
 Calvin Darlington Linton, Ph.D., *Professor of English*  
 James Christopher Corliss, A.M., *Adjunct Professor of Inter-American Economics*  
 Edward Campion Acheson, Ph.D., *Associate Professor of Finance*  
 Donald Chenoweth Kline, B.Arch., *Associate Professor of Art*  
 John Francis Latimer, Ph.D., *Associate Professor of Classical Languages and Literatures*  
 Antonio Alonso, A.M., *Associate Professor of Spanish*  
 Irene Cornwell, Ph.D., *Associate Professor of French*  
 Charles William Cole, Ph.D., *Associate Professor of American Literature*  
 Henry Goddard Roberts, A.M., *Associate Professor of Speech*  
 Gretchen Louisa Rogers, Ph.D., *Associate Professor of German*  
 Wolfram Karl Legner, Ph.D., *Associate Professor of German*  
 Charles Edward Gauss, Mus.B., Ph.D., *Associate Professor of Philosophy*  
 Lubin Poe Leggette, A.M., *Associate Professor of Speech*  
 George Martin Koehl, A.M., *Associate Professor of Physics*  
 Robert Dale Campbell, A.M., *Associate Professor of Geography*  
 Robert Randal Meijer, Ph.D., *Associate Professor of Physics*  
 Lawrence Daniel Folkemer, Ph.D., *Associate Professor of Religion*  
 Robert Corbin Vincent, Ph.D., *Associate Professor of Chemistry*  
 Florence Everett Hooper, Ph.D., *Assistant Professor of Chemistry*  
 Edith Elizabeth Mortensen, Ph.D., *Assistant Professor of Zoology*  
 Reuben Esselstyn Wood, Ph.D., *Assistant Professor of Chemistry*  
 Nels David Nelson, Ph.D., *Assistant Professor of Mathematics*  
 Calvin Weir Pettit, Ph.M., *Assistant Professor of Speech*  
 Curtis Edward Tuthill, Ph.D., *Assistant Professor of Psychology*  
 Willard Caldwell, Ph.D., *Assistant Professor of Psychology*

\* On sabbatical leave 1948-49.



Edwin Lockwood Stevens, A.M., *Assistant Professor of Speech*  
 Roderic Hollett Davison, Ph.D., *Assistant Professor of European History*  
 George Francis Henigan, Jr., Ph.M., *Assistant Professor of Speech*  
 Sam Clark Munson, M.S., *Assistant Professor of Biology*  
 Ronald Bettes Thompson, A.B., *Assistant Professor of European History*  
 Alberto Vázquez, Ph.D., *Lecturer on Spanish American Literature*

## COMMITTEES \*

## THE DEAN'S COUNCIL ‡

1949

Thelma Hunt

Ernest Sewall Shepard

1950

Howard Maxwell Merriman  
 Charles Rudolph Naeser

1951

Gretchen Louisa Rogers  
 Reuben Esselstyn Wood

## COMMITTEE ON ADMISSION AND ADVANCED STANDING

Calvin Darlington Linton, *Chairman*Edith Elizabeth Mortensen, *Secretary*

Alan Thomas Deibert

Charles William Cole

Robert Randal Meijer

## COMMITTEE ON THE USE OF CORRECT ENGLISH

Averett Howard, *Chairman*

Henry Goddard Roberts

Muriel Hope McClanahan

Edith Elizabeth Mortensen

Martin Steele Day

## COMMITTEE ON SCHOLARSHIP

Fred Salisbury Tupper, *Chairman*

Florence Marie Mears

Samuel Nathaniel Wrenn

Howard Maxwell Merriman

Antonio Alonso

## COMMITTEE ON STUDIES

The Dean of the College, *Chairman*

Antonio Alonso

Thelma Hunt

*(Languages and Literatures)**(Natural Sciences)*

Frank Mark Weida

Wood Gray

*(Mathematics and Physical Sciences)**(Social Sciences)*

\* The President of the University and the Dean of Columbian College are members ex officio of all committees.  
 ‡ Elected by the Faculty.

*The Colleges, Schools, and Divisions*

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DIVISIONAL ORGANIZATIONS

LANGUAGES AND LITERATURES

Fred Salisbury Tupper, *Chairman*  
Carey DeWitt Eldridge, *Secretary*

Educational Committee

Antonio Alonso, *Chairman*  
Fred Salisbury Tupper Calvin Darlington Linton

MATHEMATICS AND THE PHYSICAL SCIENCES

Charles Rudolph Naeser, *Chairman*  
George Martin Koehl, *Secretary*

Educational Committee

Frank Mark Weida, *Chairman*  
Thomas Benjamin Brown Samuel Nathaniel Wrenn

NATURAL SCIENCES

Lawson Edwin Yocum, *Chairman*  
Sam Clark Munson, *Secretary*

Educational Committee

Thelma Hunt, *Chairman*  
Paul William Bowman Angus MacIvor Griffin

SOCIAL SCIENCES

John Withrow Brewer, *Chairman*  
Lawrence Daniel Folkemer, *Secretary*

Educational Committee

Wood Gray, *Chairman*  
Harold Loran Geisert Donald Stevenson Watson

## GENERAL INFORMATION

## INTRODUCTORY

Columbian College was founded in 1821. James Monroe, then President of the United States, aided in obtaining the charter from Congress which established "The Columbian College in the District of Columbia" for the "sole and exclusive purpose of educating youth in the English, learned and foreign languages, the liberal arts, sciences and literature", with full power to confer all degrees "usually granted and conferred in colleges".

In 1930, when the Junior College was established, the name "Columbian College" was bestowed upon the senior college of liberal arts.

## THE COLUMBIAN COLLEGE PROGRAM

In The George Washington University, the program for liberal arts and sciences extends from the general collegiate education of the Junior College (the freshman and sophomore years), through the instruction for the Bachelor's degrees of Columbian College (the junior and senior years), and the studies for the Master's degrees which are also in Columbian College, to the graduate discipline leading to the degree of Doctor of Philosophy, which is administered by the Graduate Council.

The purpose of Columbian College is to round out the program of liberal education begun in the Junior College and to bring to a focus educationally the individual talents and aptitudes of the student of liberal arts.

The program involves a comprehensive survey of a field of study, together with such knowledge of other fields as will contribute to the general educational development of the student. A field of study may be confined to one department or may involve a group of related courses in more than one department, or more than one division.

## DIVISIONAL ORGANIZATIONS

The following divisions have been established in The George Washington University based on the relationship of course content, interrelation of methods and prerequisites, and similarity of background and viewpoint:

1. *The Division of Languages and Literatures*—The departments of Classical Languages and Literatures, English, Germanic Languages and Literatures, and Romance Languages and Literatures.
2. *The Division of Mathematics and the Physical Sciences*—The departments of Biochemistry, Chemistry, Mathematics, Physics, and Statistics.
3. *The Division of the Natural Sciences*—The departments of Anatomy, Bacteriology, Botany, Geography, Geology, Neurology, Pathology, Physiology, Psychology, and Zoology.



4. *The Division of the Social Sciences.*—The departments of Business Administration, Economics, Education, History, Law, Philosophy, Political Science, Religion, Sociology, and Speech.

The departments under these University divisions function for Columbian College only in such fields of study as are appropriate for a senior college of arts, letters, and sciences.

#### REGULATIONS

*Students in Columbian College are subject to, and are expected to familiarize themselves with, the regulations regarding ADMISSION, REGISTRATION, FEES AND FINANCES stated on pages 10-22, and the University regulations stated on pages 34-40.*

#### PREREQUISITES

It is assumed that a student entering Columbian College has met the requirements of the Junior College under the *Arts and Letters* curriculum or the *Science* curriculum. Following is a summary of these prerequisites:

The *Arts and Letters* curriculum: (1) Freshman English (6 credit hours) and an additional sophomore-year course (6 credit hours) in English, American, or European literature. A first-group course in Art, Classical Languages, or Philosophy may be substituted for the sophomore course in English. (2) Two college years (at least 12 credit hours) of a single foreign language or the equivalent (see foreign-language requirement, pages 54-55), are required. A transfer student who has had foreign-language courses in another institution meeting 4 or 5 times a week may have acquired as much as 12 credit hours in a foreign language without having taken four terms (two full years). Such a student is required to take additional work here in the same language until he has completed four terms (or an equivalent combination of high school years and college terms). (3) At least one year (6 credit hours) in social studies, chosen from first-group courses in History, Political Science, Economics, or Sociology, is required. (4) At least one year (6 or 8 credit hours) of a laboratory science (Biology, Botany, Chemistry, Physics, or Zoology), is required.

The remaining hours of the Junior College program (roughly a minimum of 22 to 24 hours) should be devoted to the prerequisite courses required by the prospective major department (as stated following the departmental staff in the courses of instruction section of the CATALOGUE) or recommended by the advisers in the field-of-study major (see pamphlets prepared by the respective advisers), together with appropriate electives.

The *Science* curriculum requirements in English are the same as those



of the Arts and Letters curriculum, except that a year of a social study may be substituted for the sophomore requirement in English, Art, or Philosophy; in other words, the sophomore English and social studies requirements are combined, and may be met by taking at least 6 credit hours in English, Art, Classical Languages, Philosophy, or a social study. The foreign-language requirement is the same as for the Arts and Letters curriculum, except that French or German is specified. At least 6 credit hours in Mathematics must be taken; additional work in Mathematics is required of prospective majors in Chemistry or Physics. In science, the student should take courses in both biological and physical sciences, bearing in mind the prerequisites stated by the department under which he expects to major, as well as specified prerequisites in certain departments (such as Mathematics and Chemistry for majors in Physics, or Mathematics and Physics for majors in Chemistry).

A transfer student admitted to Columbian College with deficiencies in freshman or sophomore work (whether in amount or in distribution of courses), corresponding to the program outlined above, is required to begin to make up such deficiencies immediately upon admission to Columbian College, and to carry courses for that purpose each term until all the general education requirements described above are satisfied. Students transferring from the School of Government must complete pre-Columbian College requirements in science and in Sophomore English (or Art, Classical Languages, or Philosophy), as prescribed in the Arts and Letters curriculum.

#### AMOUNT OF WORK

A full-time student who is not on probation may take ordinarily not more than seventeen credit hours. A student employed more than twenty-four hours a week, who is not on probation, may take not more than ten credit hours.

A full-time student whose quality-point index is 3.50 or higher may take not more than nineteen credit hours. An employed student who meets the same standard may take not more than twelve credit hours.

A student previously unemployed who accepts employment subsequent to registration or at any time during a term is required to report that fact immediately to the Dean, in order that adjustments in schedule may be made, if necessary, to bring his program within the Faculty's limitations upon the amount of work to be carried by an employed student.

#### ATTENDANCE

The student is held responsible for all the work of the courses in which he is registered, and all absences must be excused by the instructor in charge before provision is made for the student to make up the work missed. Excessive absence in any course will lead to loss of credit in

that course, even though other requirements, such as tests, term-papers, and examinations, are met.

#### CLASSIFICATION OF STUDENTS

A student who has completed less than thirty credit hours in Columbian College, and who has registered his major at the Office of the Registrar, is classed as a *junior*. A student who has completed thirty credit hours in Columbian College, including at least one course in his major, is classed as a *senior*. A student who has satisfactorily completed the work for the Bachelor's degree, and whose program of study has been approved and filed in the Office of the Registrar, is classed as a *master in course*.

#### INDEPENDENT STUDY PLAN

Under the independent study plan a student of demonstrated capacity, with special interest in the subject matter of a course, may be permitted to undertake independent study under the personal direction of an instructor, in accordance with the rules of the division in which the subject falls. Credit under this plan is limited to the specific course-credits as designated in the list of courses of instruction in the CATALOGUE.

#### CORRESPONDENCE AND HOME-STUDY COURSES

No credit is given for work done by correspondence or in home-study courses.

#### THE BACHELOR'S DEGREES

Upon the satisfactory completion of the undergraduate requirements of Columbian College, the degree of Bachelor of Arts or Bachelor of Science is conferred.

In cooperation with the School of Medicine a seven-year curriculum leading to the combined degrees of Bachelor of Arts and Doctor of Medicine is offered.

#### REQUIREMENTS FOR THE DEGREES

##### RESIDENCE

For the residence requirement, see page 38.

##### SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 34 and 35.

In order to graduate, a student must have a general quality-point index of at least 2.00. In addition, he must have a quality-point index of at least 2.50 in his major subject.\* Grades in courses taken at other institutions are not considered in computing the quality-point index.

\* Except in a Field-of-Study Major.

In computing the quality-point index in the major, all second-group and third-group courses in the major field taken at The George Washington University are included, even though minimum requirements for the major may have been exceeded, except when registration for graduate credit is approved. Grades received in first-group courses are not considered.

**Probation.**—A student must maintain a quality-point index of at least 2.00, or be placed on probation. A student remains on probation as long as his quality-point index is below 2.00, or until his probation is removed by the Committee on Scholarship.

**Suspension.**—A student who has a quality-point index below 1.00 or who is placed on probation for a third term, whether successive or after an interval, is suspended.

A student suspended for poor scholarship may apply for readmission after an interval of a calendar year. He must then submit evidence to the Committee on Admission and Advanced Standing that during his absence from the University he has so conducted himself as to indicate that he will profit by readmission. A student suspended twice for poor scholarship will not be readmitted.

For the purpose of these rules, the summer sessions are considered a term.

The foregoing scholarship rules are applied to a student with a limited schedule only when he has undertaken a minimum of fifteen credit hours.

#### CURRICULUM REQUIREMENTS

The curriculum requirements for the Bachelor's degrees include at least sixty credit hours beyond the requirements of the Junior College (the curriculum in *Arts and Letters* or in *Sciences*) and the satisfactory completion of the major. Each program must be approved by the major department or division and by the Dean. At least twenty-four credit hours must be taken in subjects\* not included in the major field or department.

Except for students registered for the combined degrees of Bachelor of Arts and Doctor of Medicine, not more than twelve credit hours of professional courses may be included in the one hundred and twenty credit hours required for the Bachelor's degrees in Columbian College. Columbian College students electing professional courses under this rule must obtain the approval, in advance, of the Dean of Columbian College.

After selecting a curriculum, a student may not change to another

\* Art, Biology, Botany, Chemistry, Classical Languages and Literatures, Economics, English, Geography, Geology, German, Languages and Literatures, History, Mathematics, Philosophy, Physics, Political Science, Psychology, Religion, Romance Languages and Literatures, Sociology, Speech, Statistics, Zoology.



except by permission of the Dean and on condition that he fulfill the requirements of the curriculum to which he changes as of the date when the change is approved by the Dean.

Each student is required to select and file with the Registrar a choice of major upon entering Columbian College. He may change the major only with the consent of the Dean and of the department or division concerned, and must meet the requirements for the major to which he changes as of the date when the change is approved by the Dean.

First-group courses may be required as prerequisites to undergraduate-major programs, but because of their introductory character may not be counted as part of such programs. (See "Explanation of Course Numbers".)

*Examinations for Waiving Curriculum Requirements.*—A student desiring to omit a required or prerequisite course may take such examination as the department prescribes, and, on passing satisfactorily, he may be relieved of the curriculum or prerequisite requirement in that subject and may qualify for registration in an advanced course. Passing of this examination shall not entitle him to any credit toward the degree. A student desiring to take such examinations should make written request of the Dean and pay the required fee at the Office of the Comptroller before the date of the examination specified in the University calendar.

*Use of Correct English.*—Any student whose English in any course whatever is deemed unsatisfactory may be reported by the instructor to the Dean and to the Committee on the Use of English. The Chairman of the Committee may assign supplementary work, without academic credit, varying in amount with the needs of the student. If the work prescribed is equivalent to a course, the regular tuition fee is charged. The granting of a degree may be delayed by failure to make up any such deficiency in English to the satisfaction of the Committee and the Dean.

### Bachelor of Arts

The work of the junior and senior years, including a major in one of the following major fields must be approved by the major department or division and by the Dean.

*Major Fields.*—American Thought and Civilization, Art (Appreciation or Drawing and Painting), Biology, Botany, Chemistry, Economics, English Literature, French Literature, Geography, Geology, Germanic Languages and Literatures, History, International Relations, Latin American Civilization and Culture, Mathematics, Philosophy, Physics, Political Science, Psychology, Religion, Sociology, Spanish American Literature, Spanish Literature, Speech (Public Speaking, Theatre, or Speech Rehabilitation), Statistics, Zoology.

*Combined Degrees of Bachelor of Arts and Doctor of Medicine.*—A



candidate for the combined degrees of Bachelor of Arts and Doctor of Medicine must: (1) complete the premedical college requirements (see page 14); (2) fulfill the Columbian College residence requirement of at least thirty credit hours; (3) obtain the approval of the Dean of Columbian College at the time of entering the School of Medicine; (4) obtain the recommendation of the Dean of the School of Medicine at the completion of all prescribed courses in the first year of the School of Medicine, at which time the degree of Bachelor of Arts will be conferred (professional work taken at another institution will not satisfy the major requirement for the combined degrees); (5) maintain throughout the entire course the scholarship level required for graduation.

#### Bachelor of Science

The work of the junior and senior years, including a major in one of the sciences mentioned below, must be approved by the major department or division and by the Dean.

##### *Biological Sciences*

Biology  
Botany  
Zoology

##### *Physical Sciences*

Chemistry  
Mathematics  
Physics  
Statistics

#### THE UNDERGRADUATE MAJOR •

There are two types of undergraduate majors: the field-of-study major; and the departmental major.

##### THE FIELD-OF-STUDY MAJOR

Each Field-of-Study Major covers a carefully worked out field of coordinated study and is under the supervision of the division or divisions concerned.

The *Field-of-Study Major* requires no specific number of credit hours, no specific program of courses, and no specific quality-point index for the major, although the student is required to meet the over-all general requirements for the degree (at least 120 credit hours, plus required physical education, with a quality-point index at 2.00). The Major Examination in the Field-of-Study Major replaces all of the traditional quantitative and qualitative requirements for a major. Ability to pass the Major Examination is assumed to be a convincing demonstration that the student possesses the breadth, depth, and quality of knowledge of his major usually defined in terms of credit hours, courses, grades, and a better-than-average quality-point index. A pamphlet prepared

• For a complete description of the undergraduate major, see the special bulletin.

under the direction of the adviser in the field of study and obtainable either from the adviser or from the Office of the Dean of Columbian College provides the information needed by the prospective student, who should place himself under the direction of the appropriate adviser immediately upon completing Junior College work and beginning his Junior year (the first senior-college year) in Columbian College.

The Field-of-Study Major places special emphasis on the intellectual development of the individual student. Programs in the same major may vary, depending upon the individual student's background, previous study, reading habits, and aptitudes. The student is expected to consult his adviser frequently, and the special proseminar offered in the field gives him further opportunity for individual advice and direction in pursuing a program especially adapted to his needs and abilities. A close student-adviser relationship is essential for the student's success under the Field-of-Study Major plan.

The following Field-of-Study Majors are offered: (1) American Thought and Civilization, (2) Biology, (3) English Literature, (4) French Literature, (5) History, (6) International Relations, (7) Latin American Civilization and Culture, (8) Philosophy, (9) Spanish American Literature, (10) Spanish Literature, (11) Statistics, (12) Zoology.

Of the Field-of-Study Majors offered, two, those in International Relations and in Biology, extend broadly over the work of their respective divisions; and two, those in American Thought and Civilization and in Hispanic American Civilization and Culture, involve studies in two divisions, those of Languages and Literatures and of Social Studies. The other Field-of-Study Majors, with the exception of the major in Spanish American Literature, replace departmental majors in their respective fields. A candidate for a major in English Literature, French Literature, History, Philosophy, Spanish, Statistics, or Zoology must elect a Field-of-Study Major.

#### Proseminar in the Major

For the convenience of the student a proseminar is offered in each field of study, under the supervision of the division in which the major is taken. This course, planned and administered by the professor or adviser of the major subject, will advise, guide, and instruct the student in his reading, study, and laboratory exercises in order to assist him in gaining a coordinated knowledge of his field. It is a presentation of the content and methods of the major field as a whole through the organization and coordination of the knowledge obtained in the various formal courses in the major subject and of material not usually included in such courses. This course is not required. Six credit hours, but no qualitative grade, may be assigned. When registered in this course, the student will have the privilege of visiting, subject to the approval of the instruc-

tor, any other course offered in the College. (Regular attendance in a course, either for credit or as an auditor, requires registration and payment of tuition.) Proseminars are open only to the student who has been accepted as a candidate under that specific major.

#### THE MAJOR EXAMINATION

The Major Examination will normally be taken by the student at the close of the senior year; in the case of a student on a limited schedule, the Major Examination may be taken not earlier than one calendar year before graduation. A student who fails to pass a Major Examination may, at the discretion of the Columbia College Committee on Studies, be reexamined at a later regular major-examination period. The educational committees of the respective divisions will have general supervision of the preparation, reading, and grading of Major Examinations. Major Examinations will be held in each regular term on dates fixed by the respective educational committees, but in no case later than January 15 for the fall term, May 15 for the winter term, and August 7 for the summer term.

#### DEPARTMENTAL MAJORS

*Departmental Majors*, unlike *Field-of-Study Majors*, are specifically defined in terms of credit hours, required courses, and the attainment of a quality point index of at least 2.50 in all second-group courses taken in the major field. The minimum specific requirements for Departmental Majors are listed below the staff of instruction of the department concerned in the section of the CATALOGUE devoted to courses of instruction. The Executive Officer of the Department, or his representative at registration, should be consulted concerning the student's program of courses, and the entire program, including electives, must be approved by the Department. The student is also expected to consult the Executive Officer or adviser in all matters affecting his program of studies, such as changes, substitutions, or withdrawals, and especially concerning his progress in his courses. As far as possible the close student-adviser relationship developed in the *Field-of-Study Major* will be cultivated also in *Departmental Majors*.

Until further notice Departmental Majors will be offered in the following: Art, Botany, Chemistry, Economics, Geography, Germanic Languages and Literatures, Mathematics, Physics, Political Science, Psychology, Religion, Sociology, and Speech.

#### THE MASTER'S DEGREES

Upon the satisfactory completion of the graduate requirements of Columbia College, the degree of Master of Arts or Master of Science is conferred.



### DEFINITION OF THE MASTER'S WORK

The study leading to the degree of Master of Arts or Master of Science is a comprehensive survey of a field of knowledge. It is a continuation of the work of the student's undergraduate major and involves a greater acquaintance with scholarly method.

The student must satisfy certain minimum requirements as to previous preparation, residence, ability to read an approved modern foreign (European) language, and courses taken; but these requirements, while essential, are regarded primarily as qualifying measures. The student's knowledge of his field, as demonstrated by his thesis and by the results of his Master's Examination (together with such other examinations involving special skills or techniques as the department or division may require), is the basis upon which the Master's degree is conferred.

### MASTER OF ARTS

Graduate work leading to the degree of Master of Arts is offered in the following fields:

American Literary and Cultural History, Bacteriology, Biochemistry, Biology, Botany, Chemistry, Economics, English and American Literature, English Literature, French Literature, Germanic Languages and Literatures, History, International Relations, Latin American Civilization and Culture, Latin American Economics, Mathematics, Philosophy, Physics, Physiology, Political Science, Psychology, Spanish American Literature, Spanish Literature, Statistics, Zoology.

Special programs involving coordinated work in two or more departments may be arranged with the approval of the appropriate division or divisions.

### MASTER OF SCIENCE

Graduate work leading to the degree of Master of Science is offered in the following fields:

Bacteriology, Biochemistry, Biology, Botany, Chemistry, Mathematics, Physics, Physiology, Psychology, Statistics, Zoology.

Special programs involving coordinated work in two or more departments may be arranged with the approval of the appropriate division or divisions.

### REQUIREMENTS FOR THE DEGREES

#### RESIDENCE

An academic year of residence in Columbian College is required, i.e., completion of a minimum of thirty credit hours of work including the thesis, which is counted as the equivalent of six credit hours of course



work. Summer term work may be counted in residence, but in no case may the period of residence aggregate less than twenty-seven weeks. Not more than twelve credit hours (which must be approved in advance by the Dean of Columbian College) may be taken in another school or division of this University, and such work may not be counted toward both a degree in that school or division and the Master's degree in Columbian College. No part of the minimum requirement may be taken elsewhere. All work for the degree of Master of Arts or Master of Science must be completed within a maximum of three years, unless the Dean's Council considers the circumstances so unusual as to justify an extension of time.

#### SCHOLARSHIP

A student whose scholarship is unsatisfactory may be suspended by the Dean upon recommendation of the Division under which the student is working. Regarding the system of grading, see pages 34 and 35.

#### PROGRAM OF STUDIES

The student's program of studies must be outlined in detail at the beginning of his work, in triplicate, on forms available at the Office of the Dean. Each program is subject to the approval of the department and the division. The program may be revised as the occasion requires, but any change necessitates a repetition of the procedure just described.

Courses numbered from 1 to 100 may not be credited toward the Master's degrees, but may in certain instances be required as a basis for advanced work. (See "Explanation of Course Numbers".)

A student who expects to continue his studies for the degree of Doctor of Philosophy after receiving the Master's degree is strongly advised so to plan his program from the beginning that work for the lower degree may help to prepare him for the higher.

#### ADMISSION TO CANDIDACY

A student must be admitted to candidacy before he begins the last half of his work for the Master's degree. Application for admission to candidacy is made on a form obtained at the Office of the Registrar, and must be approved by the appropriate representative of the Department or division and by the Dean. If a prospective candidate, in his previous academic work, has not substantially satisfied the prerequisites for the Master's degree, including the undergraduate major as defined by the appropriate department or division, he will not be admitted to candidacy until such deficiency has been made up. He may make up his deficiencies by electing appropriate courses in addition to those counted towards his degree.

Before being admitted to candidacy the student must also show that he has a reading knowledge (certified by the appropriate foreign-language department) of at least one modern foreign (European) language, selected by the division under which he is studying. A student whose field is a modern foreign language or literature may not offer that language in satisfaction of the reading-knowledge requirement. Examinations in modern foreign languages will ordinarily be given only on the dates specified in the University calendar. In exceptional circumstances the respective departments will arrange for examinations at other times.

#### THE MASTER'S THESIS

The thesis may be of a research, expository, critical, or creative type. The main purpose of a Master's thesis is to demonstrate the student's ability to make independent use of the information and training acquired through his other disciplines, and to furnish objective evidence of his constructive powers in his chosen field. Registration for the thesis must be no later than the beginning of the final year of preparation, unless the professor in charge of the thesis permits registration at the beginning of the final term. The choice of the thesis subject must be approved by the professor in charge of the student's field and recorded in the Office of the Registrar by the date announced in the University calendar. Registration for the thesis is ordinarily made on the basis of three credit hours a term for two successive terms. In exceptional cases, and with the approval of the professor in charge of the thesis, the student may register for the entire six credit hours during a single term. The typewritten thesis in its final form must have the approval of the professor in charge of the student's field and of the educational committee of the division concerned, and must be presented to the Dean by the student not later than the date announced in the University calendar. Requirements regarding the form of the thesis are stated on page 37, and additional information will be supplied by the Dean.

Payment of tuition for the thesis entitles the candidate, during the academic year of registration, to the advice and direction of the member of the faculty under whom the thesis is to be written. In case a thesis is unfinished, an additional successive academic year may be granted without further tuition payment. If the preparation of the thesis extends beyond the two-year period the student must register for it again, and pay tuition on the same basis as for a repeated course.

#### THE MASTER'S EXAMINATION

In addition to such other examinations as may be required, the candidate must pass a general written examination on the major subject. Examinations will be held on dates fixed by the respective educational committees, but in no case later than January 15 for the fall term.

May 15 for the winter term, and August 7 for the summer term. The provisions of the field-of-study plan for undergraduate majors which concern the general examination for the major also apply to the Master's Examination. A candidate who fails to pass the Master's Examination may, in exceptional circumstances and with the specific approval of the division concerned, repeat the examination, but only after the lapse of one term. If he fails a second time, no further opportunity to take the examination will be permitted.



## THE GRADUATE COUNCIL

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
Robert Whitney Bolwell, Ph.D., *Chairman of the Graduate Council*

### MEMBERS OF THE COUNCIL.

Thomas Benjamin Brown, Ph.D., *Professor of Physics*  
Charles Sager Collier, A.B., LL.B., S.J.D., *Professor of Law*  
Henry Grattan Doyle, A.M., LL.D., *Professor of Romance Languages*  
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Robert Whitney Bolwell, Ph.D., *Professor of American Literature*  
James Henry Taylor, Ph.D., *Professor of Mathematics*  
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Donnell Brooks Young, Ph.D., *Professor of Zoology*  
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Frank Mark Weida, Ph.D., *Professor of Statistics*  
Warren Reed West, Ph.D., *Professor of Political Science*  
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Francis Edgar Johnston, Ph.D., *Professor of Mathematics*  
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‡William Crane Johnstone, Jr., Ph.D., *Professor of Political Science*  
\*Mitchell Dreese, Ph.D., *Professor of Educational Psychology*  
Leland Wilbur Parr, Ph.D., *Professor of Bacteriology*  
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Merle Irving Protzman, Ph.D., *Professor of Romance Languages*  
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Wood Gray, Ph.D., *Professor of American History*  
Florence Marie Mears, Ph.D., *Professor of Mathematics*  
Thelma Hunt, Ph.D., M.D., *Professor of Psychology*  
Arthur Edward Burns, Ph.D., *Professor of Economics*  
John Withrow Brewer, Ph.D., *Professor of International Law*  
Louis Clark Keating, Ph.D., *Professor of Romance Languages*  
Paul Kenneth Smith, Ph.D., *Professor of Pharmacology*  
Samuel Nathaniel Wrenn, Ph.D., *Professor of Chemistry*

\* On sabbatical leave fall term 1948-49.

‡ On leave of absence 1948-49.



Charles Rudolph Naeser, Ph.D., *Professor of Chemistry*

\*Howard Maxwell Merriman, Ph.D., *Professor of American Diplomatic History*

George Winchester Stone, Jr., Ph.D., *Professor of English*

Fred Salisbury Tupper, Ph.D., *Professor of English*

Warren Andrew, Ph.D., M.D., *Professor of Anatomy*

Chester Elwood Leese, Ph.D., *Professor of Physiology*

Donald Stevenson Watson, Ph.D., *Professor of Economics*

William Webster Diehl, Ph.D., *Adjunct Professor of Mycology*

Angus MacIvor Griffin, Ph.D., *Associate Professor of Bacteriology*

Antonio Alonso, A.M., *Associate Professor of Spanish*

#### CONSULTANTS IN RESEARCH

Albert Richard Behnke, M.D., M.S., *Research Executive of the Naval Medical Research Institute; Physiology*

Carl Robert Brewer, Ph.D., *Chief, Bacterial Nutrition Branch, Basic Sciences Division, Chemical Corps, Camp Detrick; Bacterial Nutrition*

Dean Burk, Ph.D., *Chemist, National Cancer Institute; Tissue Respiration in Biochemistry*

Gerhard Colm, Dr. rer. pol., *Economist, Council of Economic Advisers, Executive Office of the President; Public Finance*

Paul Simon Galtsoff, Ph.D., *Senior Biologist, Fish and Wildlife Service, United States Department of the Interior; Invertebrate Zoology*

Raymond John Seeger, Ph.D., *Chief, Mechanics Division, Naval Ordnance Laboratory; Theoretical Physics*

Alberto Vázquez, Ph.D., *Chief, North and West Coast Branch American Republics Area Division, United States Department of State; Latin American Literature*

Henry Welch, Ph.D., *Chief, Division of Penicillin Control and Immunology, United States Food and Drug Administration; Antibiotics*

Willard Hull Wright, D.V.M., Ph.D., *Scientist Director, United States Public Health Service, and Chief, Zoology Laboratory, National Institute of Health; Parasitology*

#### GENERAL INFORMATION

##### INTRODUCTORY

The Graduate Council offers a program of advanced study and research leading only to the degree of Doctor of Philosophy. It was established in 1930 to replace the Graduate School which had formerly

\* On sabbatical leave 1948-49.

administered work for the Master's as well as the Doctor's degrees. The Graduate Council provides a doctoral discipline which moves freely across administrative lines dividing departments of instruction or fields of study. It gives personal supervision to a limited number of students, each of whom has his own consultative committee, examinations, and research direction.

#### ADMISSION PROCEDURE

For admission the student must possess adequate preparation for advanced study, including satisfactory Bachelor's and Master's degrees, or the equivalent, together with acceptable personal qualities and a capacity for creative scholarship. Previous graduate study should have been in the same general field as that proposed for doctoral study.

Before applying, the student should have personal interviews with the Chairman of the Council and the professor in charge of the central field of study. After application and transcripts of previous academic training have been filed, the student meets his personal admission committee which makes its recommendations to the Council. If he is approved by the committee he must demonstrate his ability to read both French and German, one of which must be passed at the time of admission, and he must present all other prerequisites for advanced study specified by the committee.

#### STUDY FOR THE COUNCIL FELLOWSHIP EXAMINATION

The discipline for the degree is divided into two stages. The first is made up of study in related fields of learning which support the general area of research concentration, culminating in the Council Fellowship Examination. The second stage is composed of research and investigation of a particular project in a special field and the presentation of such research in a written dissertation, culminating in the Final Examination.

At the beginning of the student's program of study leading to the Council Fellowship Examination, a consultative committee is assigned to direct his work in a group of fields of learning, usually five or six in number, deemed necessary to insure his breadth of knowledge and general competence for continuing independent research, as well as to support the dissertation project in his central field. Members of the consultative committee will advise the student concerning the scope and content of these supporting fields, and will assist the student in preparation for his examination in them.

This advanced study may be done by attending courses of instruction and graduate seminars, by conference with members of the student's committee, and by independent means. The examination, however, not

credits or grades for work done in courses, is the sole test of the student's ability to enter upon the second phase of his doctoral discipline. The examination is a series of written tests usually extending over a period of one week. The major portion of a day is given to each part of the examination covering one of the fields of study on the student's program. If the results of the examination are satisfactory the student is admitted as a Fellow of the Graduate Council, to pursue his specialized study and research under the supervision of a member of the Council.

#### RESEARCH, THE DISSERTATION, AND THE FINAL EXAMINATION

After the student has been inducted as a Fellow of the Council and his research program has been arranged, he is responsible only to the member of the Council who directs his research project. As a Fellow, he may attend general meetings of the Council and participate in the programs of research discussion, and enjoy unrestricted use of all the academic facilities of the University. When necessary, the Graduate Council makes provision for sending the Fellow to some other institution, library, or laboratory for special study in connection with his doctoral investigation.

The doctoral dissertation is required of all Fellows as evidence of ability to perform scholarly research and to interpret its results. An extended summary of the dissertation is published in a periodical volume by the University for distribution to other institutions and libraries. Printed copies of detailed regulations concerning the dissertation are supplied to all candidates for the doctorate.

When the completed dissertation has been approved by the member of the Council in charge of the research project, the Fellow is presented for his final examination. This examination is oral and open to the public. The committee of examiners includes not only members of the Council competent in the research field or in closely related subjects, but also at least two qualified experts from other research institutions brought to the University to participate in the examination. If the Fellow satisfies the examining committee concerning the high quality and originality of his contribution to knowledge as well as his mastery of the scholarship and research techniques of his field, the Council recommends him for the degree of Doctor of Philosophy.

#### POST-DOCTORAL STUDY

The Council expects its graduates to continue their interest in advanced study and research, and to contribute to its program. All graduates are listed as Associate Fellows and, upon request, will receive notices of all general meetings. They may continue any studies in the University without payment of tuition, and enjoy all University library



privileges. Such graduates are required to pay only the usual residence fee in order to establish their active membership in the University. The use of laboratory space and equipment is contingent upon availability, and the cost of all laboratory or special library materials is paid by the graduate. Special arrangements for such privileges must be made with the Chairman of the Council. Post-doctoral work may not be applied toward any degree offered by the University.

#### REGULATIONS

*Candidates and Fellows in the Graduate Council are subject to, and are expected to familiarize themselves with, the regulations regarding REGISTRATION, FEES AND FINANCES stated on pages 19-22, and the University regulations stated on pages 34-40.*

#### RESIDENCE AND CONTINUOUS REGISTRATION

The Graduate Council expects all students to work on their doctoral programs in residence, although there is no formal regulation concerning the minimum amount of time of resident study either in preparation for the Council Fellowship Examination or as a Fellow of the Council engaged in doctoral research. The student who undertakes either part of the doctoral program on full or limited schedule must, in accordance with University regulations, maintain continuous registration under the Graduate Council even when the Council has granted a leave of absence for study or residence elsewhere. Failure to maintain registration in each term of the academic year disrupts the residence status of the student. In such a case, the student must reapply for admission to the Council, under whatever new conditions and regulations are set up by his consultative committee or the member of the Council who directs his research.

#### TEACHING FELLOWSHIPS AND GRADUATE ASSISTANTSHIPS

A limited number of Teaching Fellowships are assigned annually to certain departments of instruction open to doctoral students registered under the Graduate Council. An announcement regarding qualifications and application for these fellowships will be sent upon request to the Office of the Graduate Council.

In many departments of instruction graduate assistants are appointed to assist in the academic program. Applicants should inquire directly of the executive officer of the department concerned regarding vacancies and details of appointment.

A pamphlet describing details of the Graduate Council program, together with a current list of fields of research offered by the Council, will be sent upon request to the Office of the Graduate Council.



## THE SCHOOL OF MEDICINE

### THE FACULTY

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
Walter Andrew Bloedorn, A.M., M.D., *Dean of the School of Medicine*  
Thomas Martin Peery, A.B., M.D., *Director of Postgraduate Instruction*

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Joseph Hiram Roe, Ph.D., *Professor of Biochemistry*  
Walter Freeman, Ph.D., M.D., *Professor of Neurology*  
Walter Andrew Bloedorn, A.M., M.D., *Professor of Medicine*  
Errett Cyril Albritton, A.B., M.D., *Professor of Physiology*  
Roger Morrison Choisser, B.S., M.D., *Professor of Pathology*  
Winfred Overholser, A.B., M.D., Sc.D., *Professor of Psychiatry*  
Leland Wilbur Parr, Ph.D., *Professor of Bacteriology*  
Frederick A. Reuter, M.D., *Professor of Urology*  
Harry Ford Anderson, M.D., *Professor of Dermatology and Syphilology*  
Daniel Bruce Moffett, A.B., M.D., *Professor of Otorhinolaryngology*  
John Parks, M.S., M.D., *Professor of Obstetrics and Gynecology*  
Preston Alexander McLendon, B.S., M.D., *Professor of Pediatrics*  
Ernest Alfred Watson Sheppard, M.D., C.M., *Professor of Ophthalmology*  
Brian Blades, A.B., M.D., *Professor of Surgery*  
Paul Kenneth Smith, Ph.D., *Professor of Pharmacology*  
James Winston Watts, B.S., M.D., *Professor of Neurological Surgery*  
Warren Andrew, Ph.D., M.D., *Professor of Anatomy*  
Thomas McPherson Brown, A.B., M.D., *Professor of Medicine*  
Lloyd Harvey Mousel, M.S., M.D., *Professor of Anesthesiology*  
Chester Elwood Leese, Ph.D., *Professor of Physiology*  
Radford Brown, M.D., *Clinical Professor of Obstetrics and Gynecology*  
Thomas Carlton Thompson, B.S., M.D., *Clinical Professor of Urology*  
Daniel LeRay Borden, A.M., M.D., *Clinical Professor of Surgery*  
Thomas Martin Peery, A.B., M.D., *Associate Professor of Pathology*  
Angus MacIvor Griffin, Ph.D., *Associate Professor of Bacteriology*  
Carleton Raymond Treadwell, Ph.D., *Associate Professor of Biochemistry*  
William Stanbro, M.D., *Associate Professor of Radiology*  
Charles Samuel Wise, B.S., M.D., *Associate Professor of Physical Medicine*

William Staton Anderson, A.B., M.D., *Assistant Clinical Professor of Pediatrics*

Leo Gregor Schmelzer, *Superintendent of the George Washington University Hospital*

#### COMMITTEES •

##### THE DEAN'S COUNCIL

Joseph Hiram Roe

Brian Blades

Winfred Overholser

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John Parks  
Brian Blades

Thomas McPherson Brown  
Leo Gregor Schmelzer

##### COMMITTEE ON ADMISSIONS

Leland Wilbur Parr, *Chairman*  
Thomas Martin Peery

##### COMMITTEE ON CURRICULUM

Thomas Martin Peery, *Chairman*

Leland Wilbur Parr  
John Parks

Brian Blades  
Thomas McPherson Brown

##### COMMITTEE ON GRADUATE STUDIES

Errett Cyril Albritton, *Chairman*

John Parks

Angus MacIvor Griffin

##### COMMITTEE ON LIBRARY

Chester Elwood Leese, *Chairman*

Harry Ford Anderson

Carleton Raymond Treadwell

##### COMMITTEE ON RESEARCH

Brian Blades, *Chairman*

Roger Morrison Choisser

Thomas McPherson Brown

Angus MacIvor Griffin

• The President of the University and the Dean of the School of Medicine are members of the committees.

COMMITTEE ON SCHOLARSHIP

John Parks, *Chairman*

Joseph Hiram Roe

Leland Wilbur Parr

Warren Andrew

COMMITTEE ON INTERN AND RESIDENT TRAINING

Lloyd Harvey Mousel, *Chairman*

Thomas Martin Peery

Brian Blades

John Parks

Thomas McPherson Brown

Leo Gregor Schmelzer

COMMITTEE ON HOSPITAL PRIVILEGES

Thomas McPherson Brown, *Chairman*

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Brian Blades

Thomas McPherson Brown

ADVISORY COMMITTEE ON POSTGRADUATE INSTRUCTION

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Walter Freeman

Brian Blades

Winfred Overholser

Thomas McPherson Brown

John Parks

Harry Filmore Dowling

Ernest Alfred Watson Sheppard

Lewis Kaigler Sweet

GENERAL INFORMATION

INTRODUCTORY

The School of Medicine of The George Washington University was opened in March 1825; of the medical schools now in existence in the United States, it is the eleventh in chronological order of founding. The University Hospital and Dispensary were established in 1898 and made a part of the organization of the School.

The School is a member of the Association of American Medical Colleges and is one of the medical colleges which have been designated continuously as "class A" by the American Medical Association. The degrees of the School of Medicine are recognized by all state examining boards.

PLAN OF INSTRUCTION

The curriculum for the degree of Doctor of Medicine must begin with the fall term.



Each year of the medical curriculum is divided into two terms of sixteen weeks each. Beginning in June 1949, the schedule of the senior year will be on a quarterly basis covering a calendar year. The formal academic assignments will occupy three terms. The fourth term will be free for the election of additional experience or investigative work, or for vacation. The senior class will be divided into four groups. Group I will be free in the summer; Group II, in the fall; Group III, in the winter; and Group IV, in the spring.

The Faculty of the School of Medicine will organize the electives for the free quarter so as to make them important factors in the program. It is planned that elections may include (1) junior internship; (2) investigative work; or (3) clinical experience under a general practitioner or specialist.

The salient features in the method of instruction are thorough laboratory training, demonstrations, and clinical teaching, with recitations and lectures to clarify the many problems presented. The clinical material in the various hospitals and out-patient departments is utilized to the fullest extent for both clinical instruction and laboratory work.

#### EQUIPMENT AND FACILITIES

*The George Washington University Hospital.*—The new hospital, with a capacity of 400 beds, was opened in 1948. This splendid new edifice, which is one of the outstanding hospitals in the United States, was made possible through a grant from the Federal Works Administration. The building is completely furnished with the latest and most scientific apparatus and equipment. Funds for the furnishings and equipment were provided through the kindness and generosity of numerous interested citizens and friends of the University. Its purpose is to supplement existing hospital resources in the District of Columbia for the care of the sick and the injured; the education of physicians, nurses, and technicians; and the advancement of medical knowledge.

The hospital is staffed and controlled by the Faculty of the George Washington University School of Medicine and it provides excellent clinical material for the instruction of medical students. Virtually every specialty in the fields of medicine and surgery has assigned space and equipment in both the out-patient department and the bed-patient section of this modern institution.

*Medical School Building.*—The building housing the School of Medicine is a five-story structure with lecture rooms and classrooms, laboratories, and students' rooms.

*Laboratories.*—A four-story laboratory building is adjacent to the main medical building. The major laboratories are for anatomy, histology and embryology, bacteriology, hygiene and preventive medicine, biochemistry, pathology, pharmacology and physiology, and clinical micro-



scopy. They are fully equipped to enable students to pursue adequately the laboratory courses and to acquire the technical skill necessary in modern clinical and investigative work.

*Medical Library.*—The Library contains a selected reference collection of more than 6,500 volumes, and provision is made to add to it the important new medical works. The principal medical periodicals are received regularly.

#### GOVERNMENT LIBRARIES AND MUSEUMS

The Library of the Surgeon General's Office of the United States Army is the most complete general medical library in the world. In addition to its great collections of medical works, all leading medical periodicals of the world are available. This Library, as well as the Library of Congress, the Public Library, and the many excellent libraries of the various government departments, is available to students and teachers through a service maintained by the Medical School Library.

The Army Medical Museum affords opportunity for studying the conditions met in military and general medicine and surgery. Its collection of anatomical and pathological specimens is unequaled by any other museum in this country. The Museum of Hygiene, the National Museum, the Smithsonian Institution, the Botanic Gardens and the Department of Agriculture all afford opportunities for study in Medicine and its allied sciences.

#### CLINICS

The city of Washington, with about a million inhabitants, provides ample clinical material. The University Hospital and Dispensary furnish clinical facilities and a large proportion of the materials studied in the courses in pathology and clinical pathology.

*The University Hospital.*—All clinics are under the supervision of the Dean, who is also Medical Director of the Hospital. This insures the highest possible utilization of available clinical material for teaching purposes and the proper supervision of clinicians and students; it brings the individual student into direct contact with patients and requires him to do, under authoritative supervision, the clinical and laboratory work necessary for diagnosis and treatment; and it permits proper interpretation of the conditions occurring during the progress of cases and promotes the keeping of adequate records. Clinical and clinico-pathological conferences are held in which the history of cases, the physical findings, laboratory records and the post-mortem pathology, when available, are presented and correlated.

*The University Dispensary.*—The Dispensary has a large out-patient service in all departments, to which several thousand visits are made

annually. Fourth-year students are assigned in rotation by sections for clinical instruction in the Dispensary.

*Gallinger Municipal Hospital.*—Clinical instruction is available in all branches of medicine. A great wealth of clinical material is afforded in this hospital by ordinance of the municipal authorities of the District of Columbia, whereby patients are assigned for treatment and clinical teaching to members of the Faculty of this School, nominated by this University. Third-year students serve their clinical clerkships at this institution.

*Childrens Hospital.*—Clinical instruction in pediatrics, dermatology, and orthopedic surgery.

*Emergency Hospital and Central Dispensary.*—Clinical instruction in medicine, surgery, and the specialties.

*Garfield Memorial Hospital.*—Clinical instruction in gynecology and obstetrics in the out-patient department, on the wards, and in the operating room.

*St. Elizabeths Hospital.*—Clinical instruction in mental and nervous diseases, medicine, post-mortem work, and gross pathology. This hospital, with 7,320 beds, is maintained by the United States Government. The psychiatric clinic is one of the largest in the world.

*Episcopal Eye, Ear and Throat Hospital.*—Clinical instruction in ophthalmology, otology, rhinology, and laryngology.

*Mt. Alto Hospital.*—Clinical instruction in Medicine and Surgery is available and fourth year students are assigned in rotation by sections for clinical clerkships.

*Walter Reed General Hospital.*—Clinical instruction is available in all branches of medicine and surgery. Fourth year students are assigned in rotation by sections for clinical instruction.

*Warwick Clinic.*—The facilities of the Cancer Detection Clinic are available to medical students. In addition the diagnosis and treatment of various forms of neoplasms are presented. The results of the treatment of neoplasms are evaluated by follow-up studies.

#### ADMISSION, REGISTRATION, FEES AND FINANCIAL REGULATIONS

*Students in the School of Medicine are subject to, and are expected to familiarize themselves with, the regulations stated on pages 10-22.*

Registration in the School of Medicine is for a period of one academic year. After the student has entered the courses of instruction he is obligated for the full tuition for the academic year. No part of the tuition will be refunded upon withdrawal or dismissal for any cause. Acceptance by the School of a student's fees does not in any way obligate the School to accept the student for any subsequent year.

A fee of \$3 to defray the costs of completing the records for final

consideration for admission must accompany each application. This fee applies to students whose premedical training was completed at this University as well as to students who have not previously attended this University. Fees for each term are \$300, payable in advance.

Because the number of applicants far exceeds the limit of each class, places can be reserved for only those qualified applicants who remit a deposit of \$100 which will be credited toward the tuition of the first term. Should the matriculant be unable to attend, this initial payment, less a charge of \$50 for registration, transfer, etc., will be returned up to one month before the opening of the term.

Credit for work will not be given until, at the completion of a laboratory course, the student has replaced or paid for all articles of equipment or other University property which he has lost, broken, or destroyed. All breakage or loss not directly traceable to an individual student is assessed *pro rata*.

#### COST OF TEXTBOOKS AND STUDENT EQUIPMENT

The minimum cost of necessary textbooks and student equipment (microscope, drawing materials, glass slides, clinical thermometer, stethoscope, hemocytometer, etc.) is approximately as follows: first year, \$350; second year, \$150; third year, \$100; fourth year, \$100; total \$700.

A fee of \$1 a term is charged for the use (optional) of a locker.

#### REGULATIONS

*Students in the School of Medicine are subject to and are expected to familiarize themselves with, the general University regulations stated on pages 34-40.*

#### ABSENCE

Absence is not allowed unless an excuse is obtained from the Dean or the instructor.

Absence consists in being away from a class or clinic during a scheduled period, entering after the class or clinic has begun, or leaving before either is dismissed.

Excuse for absence due to sickness must be accompanied by a certificate signed by the attending physician and must be filed in the Office of the Dean.

For every unexcused absence a department will deduct one-half of one per cent from the student's final grade in the subject involved.

#### GRADES

The following grading system is used: *A* (90-100); *B* (80-89); *C* (75-79); *D* (65-74) condition; *E* (below 64) failure; *Inc.*, incomplete. The passing grade in each subject is *C*.



A student who is conditioned in any subject will not be advanced until such condition is removed and then only by authority of the Committee on Scholarship. All conditions must be removed at the next make-up examination period provided for this purpose.

#### EXAMINATIONS

Examinations, which may be written, oral, or practical, will be held at the end of each term.

A student who fails to appear at a regularly scheduled final examination will not be examined until the next regular examination, except by special permission of the Committee on Scholarship. For make-up examinations to remove conditions, a fee of \$5 will be charged for each subject.

All students in the School of Medicine are required to take Part I and Part II of the National Board Examinations, except that students from those states and foreign countries which do not recognize the National Board may be exempted from Part II by action of the Committee on Scholarship.

#### SPECIAL UNDERGRADUATE AND GRADUATE ADVANTAGES

##### PHYSICAL EXAMINATIONS \*

All first-year students are given a comprehensive physical examination by the Department of Health Administration upon admission to the School of Medicine. The students are informed of the findings and advised regarding such measures as will tend to maintain a high standard of health.

In addition medical students benefit from the complete Tuberculosis Case Finding Program which the School has maintained since 1938-39. Under this program all students receive tuberculin tests, X ray examinations, and such special attention from chest specialists as is necessary to reduce to a minimum the dangers from tuberculosis to which medical students are believed to be subject. Students are immunized against those diseases for which proven prophylactics exist.

##### RESERVE OFFICERS' TRAINING CORPS, U. S. ARMY, MEDICAL UNIT

A Medical Unit of the Reserve Officers' Training Corps is established in this School by authority of the Secretary of the Army, and an officer of the Medical Corps of the Army is detailed to the University for supervision and instruction of the unit.

The instruction is divided into two two-year courses, the basic and the advanced. Each course consists of 90 hours a year—58 hours of pre-

\* A charge of \$5 is made if a student fails to appear for a physical examination during the period set for this purpose.



scribed medical instruction given by the Medical School and 32 hours of military medical instruction. Students who satisfactorily complete the basic course may, up to the quota allowed by the Department of the Army, enter the advanced course. Students in the advanced course receive, from the Government, a stipend of approximately \$700.

Students in the advanced course are required to complete the course and to attend a summer training period of six weeks.

A student who successfully completes the course is recommended for a commission in the Medical Corps Reserve, if he desires appointment. It is the policy of the Department of the Army to give preference to graduates of this course in the selection for Army internship.

#### MEMBERSHIP IN THE UNIT

Membership in the Unit, which is voluntary, is open to any physically fit male student who is a citizen of the United States and who is, at the time of enrollment, within the following specified age limits: under 26 years of age for the basic course, under 29 for the advanced course. For veterans of World War II, there is no age limit until January 1, 1950, for the basic course; until January 1, 1952, for the advanced course. Veterans with a minimum of six months' service receive credit for the first year of the basic course; those with a minimum of twelve months' service receive credit for both years of the basic course.

#### COMMISSION ON LICENSURE, DISTRICT OF COLUMBIA

Graduates who wish to take the examinations of the Commission on Licensure, District of Columbia, or desire to use the District license for reciprocity with the states, should apply to the Secretary, Commission on Licensure, Healing Arts Practice Act, District Building, Washington 1, D. C.

#### DEPARTMENTS OF INSTRUCTION

The work of the School is organized under the following departments: Anatomy; Anesthesiology; Bacteriology, Hygiene, and Preventive Medicine; Biochemistry; Dermatology and Syphilology; Medicine; Military Science and Tactics; Neurology and Neurological Surgery; Obstetrics and Gynecology; Ophthalmology; Oto-rhino-laryngology; Pathology; Pediatrics; Pharmacology; Physical Medicine; Physiology; Psychiatry; Radiology; Surgery; and Urology.

#### CLINICS

Courses of clinical instruction are included in the announcements of the clinical departments. The Dean prepares schedules of clinics and of student section assignments to the various hospitals and dispensaries.

## THE DEGREE OF DOCTOR OF MEDICINE

Upon the satisfactory completion of the requirements of the School of Medicine, the degree of Doctor of Medicine is conferred.

### REQUIREMENTS FOR THE DEGREE

Every candidate for graduation with the degree of Doctor of Medicine must be at least twenty-one years of age, of reputable character, and free of all indebtedness to the University. He must have satisfied the admission requirements, completed satisfactorily not less than four academic years of study as a matriculated student in Medicine, completed all required courses, and passed satisfactorily all prescribed examinations.

### COMBINED ARTS AND MEDICINE CURRICULUM

In order to be recommended for the degree of Bachelor of Arts, the candidate must complete at least ninety credit hours of prescribed college work (at least thirty credit hours and one year of residence must be completed in Columbian College, the senior liberal arts college), and the first year of the medical curriculum. Upon satisfactory completion of the fourth year of the medical curriculum the student becomes eligible for the degree of Doctor of Medicine.

### HONORS

A candidate who has completed the four-year medical course with an average grade of *A* may be recommended for graduation "with distinction".

## GRADUATE AND POSTGRADUATE OPPORTUNITIES

### POSTGRADUATE INSTRUCTION

The School of Medicine offers annually a series of short intensive postgraduate courses, varying somewhat from year to year. The series is designed for physicians in practice. The significant advances in the various specialties are presented, together with summaries of older information. A distinguished Guest Faculty supplements the Staff of the Medical School.

The Kellogg Medical Lectures, inaugurated in 1948, are a series of evening lectures and clinics, designed primarily for physicians practicing in Washington and vicinity. They are also attended by the Faculty, postgraduate students, and members of the senior class of the School of Medicine.

During the academic year 1947-48, more than 700 physicians were enrolled in postgraduate courses.

#### INTERN AND RESIDENT TRAINING PROGRAM

The George Washington University offers twenty internships which are divided into two categories of ten straight medical and ten straight surgical. All interns, regardless of the Service to which they are assigned, will be given a period of training in obstetrics and gynecology.

Accredited resident training will be offered in Medicine, Anesthesiology, Pathology, Neurology.

#### TECHNICIAN TRAINING COURSES

##### ORTHOPTIC TECHNICIAN TRAINING COURSE

A six-month course, of 675 hours of clinical and classroom work, is offered for the training of orthoptic technicians by the Department of Ophthalmology.

##### MEDICAL TECHNOLOGISTS COURSE

The course for medical technologists consists of twelve consecutive months of didactic and practical work in all phases of clinical laboratory technique. The course meets the full requirements of the Registry of Medical Technologists and the American Society of Clinical Pathologists. Prerequisite: Biology, twelve credit hours of which at least six must be Zoology. The other six may be elected from: Histology, Embryology, Anatomy, Physiology, Parasitology, and Bacteriology. Chemistry: General Inorganic Chemistry, eight credit hours of which at least four credit hours must be laboratory work. Quantitative Analysis: at least four credit hours with not less than one credit hour of laboratory work. (Organic Chemistry may be substituted for Quantitative Analysis, for the present.) Electives: Sufficient to give a total of 60 hours of college credit. The following courses are highly recommended but they are not required: Physics, Biochemistry, Advanced Bacteriology, and Mathematics.

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For application blanks and further information, address the Director of Admissions, The George Washington University, Washington 6, D. C.



## THE LAW SCHOOL

### THE FACULTY AND STAFF OF INSTRUCTION •

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*

William Cabell Van Vleck, A.B., LL.B., S.J.D., *Dean of the Law School*

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William Cabell Van Vleck, A.B., LL.B., S.J.D., *Professor of Law*

Charles Sager Collier, A.B., LL.B., S.J.D., *Professor of Law*

William Thomas Fryer, A.B., LL.B., J.D., *Professor of Law*

Saul Chesterfield Oppenheim, A.M., J.D., S.J.D., *Professor of Law*

Carville Dickinson Benson, A.B., LL.B., S.J.D., *Professor of Law*

James Forrester Davison, A.B., LL.M., S.J.D., *Professor of Law*

James Oliver Murdock, Ph.B., LL.B., *Professor of Law*

Levi Russell Alden, A.M., LL.B., *Adjunct Professor of Law*

George Bowdoin Craighill, A.B., LL.B., *Adjunct Professor of Law*

James Ward Morris, A.B., *Adjunct Professor of Law*

James Robert Kirkland, A.B., LL.M., *Adjunct Professor of Law*

Bolitha James Laws, LL.M., *Adjunct Professor of Law*

Frank Hammett Myers, LL.M., *Adjunct Professor of Law*

Conder Caywood Henry, A.B., LL.B., *Adjunct Professor of Law*

Elliott DeJarnette Marshall, LL.B., *Adjunct Professor of Law*

John Albert McIntire, A.B., LL.B., *Professorial Lecturer in Law*

William Randall Compton, M.B.A., LL.B., J.S.D., *Professorial Lecturer in Law*

Justin Lincoln Edgerton, A.B., LL.B., *Professorial Lecturer in Law; Clerk of the Moot Court*

Charles Sylvanus Rhyne, LL.B., *Professorial Lecturer in Law*

Karl Rhorer Price, A.B., LL.B., *Professorial Lecturer in Law*

Harryman Dorsey, A.B., LL.B., *Associate Professor of Law*

Robert McKinney Cooper, Ph.M., J.D., *Associate Professor of Law*

Leroy Sorenson Merrifield, A.B., LL.B., M.P.A., *Assistant Professor of Law*

August Gottlieb Eckhardt, A.B., LL.M., *Assistant Professor of Law*

William Leigh Ellis, A.B., LL.M., *Lecturer in Law*

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• The President of the University, the Dean of the School, the Registrar of the University, the Director of Admissions of the University, Professors, Adjunct Professors, and Associate Professors constitute the Faculty.



THE DEAN'S COUNCIL \*

Carville Dickinson Benson  
Charles Sager Collier  
Robert McKinney Cooper  
James Forrester Davison  
Harryman Dorsey

August Gottlieb Eckhardt  
William Thomas Fryer  
Leroy Sorensen Merrifield  
James Oliver Murdock  
Saul Chesterfield Oppenheim

GENERAL INFORMATION

INTRODUCTORY

The George Washington University Law School, established in 1826, discontinued and reorganized in 1865, is the oldest law school in the District of Columbia. Its course of instruction is planned to fit its graduates for the practice of law in any of the states of the United States or in foreign countries, the law of which is based on the Anglo-American legal system. It is also designed to prepare students for public service as lawyers in the Federal Government or the governments of the states. In 1900 the School took part in the organization of the Association of American Law Schools and it has been a member of the Association since that time. The School is approved by the Council of Legal Education of the American Bar Association.

ORGANIZATION OF THE ACADEMIC YEAR

The work of the year is organized into three terms known as the fall term, winter term, and summer term. The work undertaken in any one term may be completed by the end of that term. The summer term constitutes a full term of sixteen weeks.

THE LIBRARY

The Law School Library of 26,000 volumes contains the official reports of the decisions of the courts of last resort of all the states prior to the National Reporter System and of fourteen states complete to date; the National Reporter System, complete; the reports of the United States Supreme Court and lower federal courts, and the reports of federal administrative agencies; Shepard's Citations for the units of the Reporter System; the English Reprint and English Law Reports; the United States Statutes; the United States Code, Annotated, and the Federal Code, Annotated; reasonably complete sets of statutes of all of the states; the English statutes; the principal English and American

\* The President of the University and the Dean of the Law School are ex officio members of the Council.

digests and encyclopedias; collections of special reports and annotated cases; and the leading textbooks, casebooks, and legal periodicals.

The Library is open from 9:00 A.M. to 10:00 P.M. each class day (Saturday, 9:00 A.M. to 5:00 P.M.), and from 2:00 to 6:00 P.M. on Sunday.

#### THE LAW REVIEW

*The George Washington Law Review*, published by the University, is edited by the Faculty and students of the Law School. It is devoted exclusively to state and federal public law. The location of the University in the national Capital, where the primary sources of federal public law may be observed in operation, affords an unexcelled opportunity for specialization in this field.

The *Review* is edited by a faculty editor-in-chief, a faculty board of associate editors, a board of departmental advisory editors, and a board of student editors. The student editors are chosen each year on the basis of scholarship.

#### RESEARCH IN PUBLIC LAW

Washington, the capital of the Nation, furnishes unsurpassed advantages for research in the fields of public law. In it are the offices of the major executive departments, the Congress, the Supreme Court of the United States, and four lower federal courts. In the executive departments and among the many independent establishments of the Federal Government there have been estimated to be between seventy-five and one hundred agencies, the activities of which involve the various branches of public law, particularly administrative law. The student of public law can study at first hand the work of these administrative agencies. He also has available as sources for investigation their records of administrative adjudications.

Research in public law will be conducted under the supervision of members of the faculty. The purpose of this research is to furnish means for training specialists in public law, either as government lawyers or as lawyers representing individuals or corporations in cases in which the Government is a party, and to assist in the analysis, clarification, formulation, and improvement of public law, substantive and procedural.

Candidates for the graduate degrees in the Law School and seniors who are eligible for the degree of Juris Doctor may pursue this work. Other students may be admitted with the special permission of the professor in charge.

#### COURSE OF STUDY FOR FOREIGN LAWYERS

This course of study is designed to meet the needs of lawyers who come from countries, the legal systems of which are based on the Roman

or Civil Law. It attempts to provide for such students a course sufficient to enable them to acquire an understanding of the fundamentals of the common law so that they may work intelligently with common law materials and common law practitioners. In this program the students are not assigned to special classes but work in association with other students in the regular law subjects. No fixed program of required courses is attempted but each student is permitted to work out a program best adapted to his individual needs.

#### THE STUDENT BAR ASSOCIATION

Every student in the Law School is required to be a member of the Student Bar Association. This is organized to enable the student to become better acquainted with problems of the profession, to develop better professional ideals, and to bring about closer contact with members of the profession engaged in active practice of the law.

The work of the Student Bar Association is carried on by various committees and by group and general meetings of a professional and social nature. From time to time lectures are given by outstanding authorities on legal and professional problems.

Each member of the Student Bar Association receives a subscription to *The George Washington Law Review*.

#### PRACTICE AND PRACTICE COURT

The curriculum is planned to include such training in the fundamentals of practice as is feasible in a law school. Classroom instruction is conducted in the theories of pleading and procedure, trial and appellate practice, and evidence. This instruction includes grounding in the principles of the new Federal Rules of Civil Procedure. In addition each senior student is required to participate in the work of the Practice or Moot Court. This includes trying a specified number of cases, both as a senior counsel and junior counsel. For students who are planning to practice patent law, a special section of the court is devoted exclusively to the trial of patent cases.

#### ORDER OF THE COIF

The Order of the Coif, a national honor society with chapters in thirty-seven law schools, aims "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship". The George Washington University Chapter was established in 1926. Members are elected each year from the highest-ranking 10 per cent of the graduating class of the Law School.



### REGULATIONS

*Students in the Law School are subject to, and are expected to familiarize themselves with, the regulations concerning ADMISSION, REGISTRATION, FEES AND FINANCES stated on pages 10-22, and the University regulations stated on pages 34-40.*

### HOURS OF INSTRUCTION

Students without substantial outside employment may take a full-time program of studies in the forenoon classes from 9:10 A.M. to 1:00 P.M.

Primarily for the accommodation of employed students, a regular course may be taken in classes held from 5:50 to 7:30 P.M.

### AMOUNT OF WORK

Students without substantial outside employment may take a full-time program of studies in which the majority of credit hours must be in the morning sections. Students with substantial outside employment must take a limited program of studies not exceeding ten hours a week.

### ATTENDANCE

Regular attendance on classes is required and is necessary for successful work. A student who is deficient in class attendance in any subject may, by action of the Dean's Council, be barred from taking the examination in that subject.

### RESIDENCE REQUIREMENTS

A year's attendance in the evening classes is counted as residence for three-fourths of a year. A student admitted with advanced standing must complete at least one year of residence in this School and pass twenty-eight credit hours with the required average for the degree.

### GRADES

Grades are indicated by the letters *A*, excellent, 85-100; *B*, good, 75-84; *C*, satisfactory, 65-74; *D*, poor, 55-64—below standard for graduation; and *F*, failed—below 55.

The grades *A*, *B*, *C*, and *D*, mean that the work has been successfully completed and credit given for the subjects.

*F*, failed, means that no credit will be given. To obtain credit the student must repeat the subject; but a student who has obtained an average of *C* in the work of a calendar year and received a grade of *F* in only one subject may take the next regular examination in that subject, and if on such reexamination he obtains a passing grade he will be given credit in the subject. Both grades are recorded.



### EXAMINATIONS

Every student is required to take the regular examinations in the subjects pursued, unless excused by the Dean. A student who, with the consent of the Dean, does not take the examination in a subject with the class in which he is enrolled may take the next regular examination given in the subject.

No special examinations will be given; except that, upon written application to the Dean's Council, showing sufficient cause, a candidate for a degree at a convocation before the next regular examination, if he would be entitled to take a postponed examination, may, at the discretion of the Dean's Council, be given a special examination.

### EXCLUSION AND PROBATION FOR POOR SCHOLARSHIP

A student who during a calendar year fails in courses aggregating eight or more credit hours will be excluded. Such a student is not eligible to be registered in the Law School or to attend classes. He may, however, be admitted to the next regular examinations in those subjects in which he has made a grade below passing, and if he receives a grade of passing in these subjects with an average sufficient to make his general average not less than *C*, he will be reinstated.

A student not subject to exclusion under the foregoing rule who at the end of a calendar year has failed to maintain a general average of at least *C*, will be on probation during the next calendar year. A student on probation may at the discretion of the Dean be required to reduce his program of study. A student on probation will be excluded at the end of the probationary year unless he has made grades sufficient to give him a general average of at least *C*.

The general average of a student includes all the grades in all the subjects taken while he is in the Law School working for a particular degree. When a subject is repeated or a reexamination is taken, both the first grade and the subsequent grade or grades are counted in the general average.

In special cases in which it is clear that the student's failure does not indicate lack of ability to pursue the study of law, the student who has become subject to exclusion may be readmitted by vote of the Dean's Council of the Law School.

No student is put on probation or excluded because of the work of one term only, or as the result of a program of less than four hours a week during the academic year.

### CLASSIFICATION OF STUDENTS

Students are divided into classes on the completion of credit hours as follows: first year, one through twenty-eight; second year, twenty-nine through fifty-six; third year, fifty-seven or more.

## THE DEGREES

## IN THE PROFESSIONAL COURSE

These degrees are Bachelor of Laws (LL.B.) and Juris Doctor (J.D.).

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF LAWS

To be recommended for this degree the student must have completed: a residence period of not less than three academic years on a full-time basis (four years on a part-time basis) in an approved law school, the last year to be in this School; and eighty credit hours, with a general average of at least *C*, including the course in Moot Court.

## REQUIREMENTS FOR THE DEGREE OF JURIS DOCTOR

This degree is conferred as a recognition of the completion at the George Washington University Law School, with high rank, of the full professional course of not less than three full years (four years on a part-time basis) including experience in research and legal authorship.

To be recommended for this degree the student must have completed: (1) a residence period of not less than three academic years on a full time basis (four years on a part-time basis) in the Law School; (2) eighty credit hours with a general average of at least *B* including the course in Moot Court and one of the following courses: Comparative Law, Jurisprudence, or one of the graduate seminars; and (3) one year of acceptable service on the board of student editors of *The George Washington Law Review*, election to which is subject to regulations laid down by the Faculty. Students taking the combined Arts and Law or Engineering and Law course are not eligible for this degree.

## HONORS

The degree of Bachelor of Laws or of Juris Doctor "with distinction" will be awarded the student who obtains a general average of *A* in the work for the degree.

## IN THE GRADUATE COURSE

These degrees are Master of Laws (LL.M.), Master of Comparative Law (M.Comp.L.), and Doctor of Juridical Science (S.J.D.),

## REQUIREMENTS FOR THE DEGREE OF MASTER OF LAWS

To be recommended for this degree the student must have completed a residence period of not less than one academic year. He must have completed with a satisfactory average twenty credit hours of subjects in the graduate curriculum. In individual cases, third- or fourth-year subjects

listed in the professional curriculum may be included in the program of study. All requirements for this degree must be completed in this Law School and in a period not exceeding two academic years.

#### REQUIREMENTS FOR THE DEGREE OF MASTER OF COMPARATIVE LAW

To be recommended for this degree the student must have completed a residence period of not less than one academic year. He must have completed satisfactorily twenty-four credit hours of approved subjects in the curriculum of the Department of Law or of such other departments of the University as the faculty of the Law School shall approve.

#### REQUIREMENTS FOR THE DEGREE OF DOCTOR OF JURIDICAL SCIENCE

To be recommended for this degree the student must have completed a residence period of not less than one academic year. He must have pursued a course of study and research designated by his consultative committee and approved by the Committee on Graduate Students. At the conclusion of his first year of residence, or at such other time as the Committee on Graduate Students may set, the candidate must pass an oral examination in those fields of study selected by the consultative committee. This examination shall be conducted by the consultative committee and such other members of the faculty and qualified experts from other research institutions as may be selected by the Committee on Graduate Students.

Not later than the date specified in the University calendar the candidate must submit to the Dean one typewritten original and two legible and complete carbon copies of his thesis in its final form and also a typewritten summary of the thesis consisting of not more than 2,500 words. To be acceptable the thesis must, in the opinion of the examining committee, constitute a substantial contribution to the field of law concerned and be suitable for publication. Additional information will be supplied by the Chairman of the Committee on Graduate Students.

The summaries of accepted theses will be printed in a volume forming a number of the University BULLETIN. The successful candidate for the doctorate is required, before receiving his degree, to pay a fee to cover the expense of printing the summary of his thesis.



## THE SCHOOL OF ENGINEERING

### THE FACULTY AND STAFF OF INSTRUCTION \*

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
Frederick Morris Feiker, B.S. in E.E., D.Eng., *Dean of the School of Engineering*  
Carl Hugo Walther, B.E., M.C.E., *Assistant Dean of the School of Engineering*

---

Thomas Benjamin Brown, Ph.D., *Professor of Physics*  
Norman Bruce Ames, M.S., E.E., LL.B., *Professor of Electrical Engineering*  
Arthur Frederick Johnson, M.E., Ph.D., *Professor of Mechanical Engineering*  
James Henry Taylor, Ph.D., *Professor of Mathematics*  
Frank Mark Weida, Ph.D., *Professor of Statistics*  
Frederick Morris Feiker, B.S. in E.E., D.Eng., *Professor of Engineering Administration*  
Merle Irving Protzman, Ph.D., *Professor of Romance Languages*  
Benjamin Carpenter Cruickshanks, B.S. in M.E., *Professor of Mechanical Engineering*  
Bruce Douglas Greenshields, B.S. in C.E., C.E., Ph.D., *Professor of Civil Engineering*  
Charles Rudolph Naeser, Ph.D., *Professor of Chemistry*  
Carl Hugo Walther, B.E., M.C.E., *Professor of Civil Engineering*  
Forest Klaire Harris, Ph.D., *Professorial Lecturer in Electrical Engineering*  
Newbern Smith, M.S. in E.E., Ph.D., *Professorial Lecturer in Electrical Engineering*  
Waldo Edward Smith, B.E., M.S. in C.E., *Professorial Lecturer in Civil Engineering*  
Milton Kent Akers, B.S., E.E., *Associate Professor of Electrical Engineering*  
Wolfram Karl Legner, Ph.D., *Associate Professor of German*  
Robert Gay Trumbull, B.S. in C.E., *Associate Professor of Mechanical Engineering*  
Raymond Pugh Eyman, C.E., *Associate Professor of Civil Engineering*

\* The President of the University, the Dean of the School, the Registrar of the University, the Director of Admissions of the University, Professors, Associate Professors and Assistant Professors constitute the Faculty.



William Sutton Carley, M.S. in E.E., *Associate Professor of Electrical Engineering*

Averett Howard, A.M., *Assistant Professor of English*

Charles Edward Greeley, B.S. in M.E., *Assistant Professor of Mechanical Engineering*

Otakar Wenceslaus Kabelac, M.C.E., *Assistant Professor of Mechanical Engineering*

James Joseph Kerley, Jr., A.B. in C.E., *Assistant Professor of Civil Engineering*

Edgar Stover Walker, B.S. in C.E., *Lecturer in Civil Engineering*

William Gammon Hayward, B.S. in C.E., *Lecturer in Civil Engineering*

Rudolph Michel, M.S., *Lecturer in Mechanical Engineering*

Moses Freedman, B.S. in Eng., *Lecturer in Civil Engineering*

George Francis Strollo, B.S. in C.E., M.C.E., *Lecturer in Civil Engineering*

Ralph Edward Fuhrman, B.S. in C.E., M.S., *Lecturer in Civil Engineering*

Sarkis Bagdoyan, B.S. in C.E., *Lecturer in Civil Engineering*

Edward Frederick Kelly, M.S., Ae.E., *Lecturer in Mechanical Engineering*

Dwight Edward Shytle, *Lecturer in Electrical Engineering*

Thomas Alvin O'Halloran, B.E.E., *Lecturer in Electrical Engineering*

Bernard Bernstein, B.S., B.M.E., *Lecturer in Mechanical Engineering*

Luther Bertram Nye, Jr., B.E., *Lecturer in Mechanical Engineering*

Nicholas Mandragos, B.S. in C.E., *Lecturer in Civil Engineering*

Alvin Raymond Schwab, B.S., M.S. in Eng., *Lecturer in Civil Engineering*

Asriel Taragin, B.E., *Lecturer in Civil Engineering*

Malcolm Richardson Moore, B.E.E., *Lecturer in Electrical Engineering*

Richard Lee Fenton, B.M.E., *Lecturer in Mechanical Engineering*

Ralph Brady, B.S. in E.E., *Lecturer in Electrical Engineering*

Frederick Henry Kohloss, B.S. in M.E., *Instructor in Mechanical Engineering*

Jerome Strauss Antel, Jr., B.S. in E.E., *Instructor in Electrical Engineering*

Stanley Walter Lange, B.M.E., *Associate in Mechanical Engineering*

George Pida, B.E.E., *Associate in Electrical Engineering*

## THE DEAN'S COUNCIL \*

1949

James Henry Taylor  
Charles Rudolph Naeser

1950

Benjamin Carpenter Cruickshanks  
Charles Edward Greeley

1951

Norman Bruce Ames  
Bruce Douglas Greenshields

## GENERAL INFORMATION

## INTRODUCTORY

The School of Engineering was organized in 1884 as the Corcoran Scientific School. In 1903 that school was combined with Columbian College in the Department of Arts and Sciences. In 1905 the engineering courses were placed under an administrative organization known as the Washington College of Engineering and in 1909 the name was changed to the College of Engineering and Mechanic Arts. In 1914 the name became the School of Engineering.

Courses leading to the degrees of Bachelor of Civil Engineering, Bachelor of Mechanical Engineering, and Bachelor of Electrical Engineering are accredited by the Engineers' Council for Professional Development, the recognized accrediting body of the engineering profession, composed of representatives of the American Society of Civil Engineers, the American Institute of Mining and Metallurgical Engineers, the American Society of Mechanical Engineers, the American Institute of Electrical Engineers, American Society for Engineering Education, the American Institute of Chemical Engineers, and the National Council of State Boards of Engineering Examiners.

## REGULATIONS

*Students in the School of Engineering are subject to, and are expected to familiarize themselves with, the regulations concerning ADMISSION, REGISTRATION, FEES AND FINANCES stated on pages 10-22, and the University regulations stated on pages 34-40.*

## AMOUNT OF WORK

Eighteen credit hours, including required physical education, constitute normal full-time work. Nine credit hours constitute normal part-time work.

A full-time student who is not on probation may take ordinarily not more than nineteen credit hours. A student employed more than twenty-four hours a week, who is not on probation, may take ordinarily

\* Elected by the Faculty. The President of the University and the Dean and the Assistant Dean of the School of Engineering are members ex officio of the council.

not more than ten credit hours. A student whose quality-point index is 3.00 or higher may be permitted by the Dean to exceed these limits by not more than two credit hours.

A student previously unemployed who accepts employment subsequent to registration or at any time during a term is required to report that fact immediately to the Dean, in order that adjustments in schedule may be made, if necessary, to bring his program within the Faculty's limitations upon the amount of work to be carried by an employed student.

#### ATTENDANCE

The student is expected to attend every meeting of the course in which he is registered fully prepared to carry on the work required. The student is held responsible for all work in the course, and all absences must be excused before provision will be made for him to make up the work missed. Excuses for absences from examinations which have been announced in advance can be obtained only by making written application to the instructor in charge of the course.

#### THE BACHELOR'S DEGREES

The Bachelor's degrees are: Bachelor of Civil Engineering, Bachelor of Electrical Engineering, Bachelor of Mechanical Engineering, and Bachelor of Science in Engineering.

The degree of Bachelor of Science in Engineering may be earned with any of the following majors: Business Administration, Chemistry, Economics, Mathematics, Naval Architecture, Physics, or Statistics.

#### REQUIREMENTS FOR THE DEGREES

##### SCHOLARSHIP

The system of grading and computing scholarship is described in detail on pages 34 and 35.

In order to graduate, a student must have a quality-point index of at least 2.00. No student whose quality-point index is below 2.00 will be admitted to the junior year.

*Probation.*—A student must maintain a quality-point index of at least 2.00, or be placed on probation. A student remains on probation as long as his quality point index is below 2.00, or until his probation is removed by the Dean's Council.

*Suspension.*—A student who has a quality-point index below 1.50 or who is placed on probation for a third term, whether successive or after an interval, will be suspended. A student suspended for poor scholarship may apply for readmission after an interval of one calendar year. He must then submit evidence to the Dean's Council that during his absence from the University he has so conducted himself as to indicate



that he will profit by readmission. A student suspended twice for poor scholarship will not be readmitted.

#### USE OF CORRECT ENGLISH

Any student whose English in any course whatever is deemed unsatisfactory may be reported by the instructor to the Dean's Council. The Council may assign supplementary work, without academic credit, varying in amount with the needs of the student. If the work prescribed is equivalent to a course, the regular tuition fee is charged. The granting of a degree may be delayed for failure to make up any such deficiency in English to the satisfaction of the Dean's Council.

The foregoing regulation is to be interpreted as applying to both written and spoken English.

#### RESIDENCE

One year, or thirty-six credit hours, must be completed in residence in the School of Engineering. Summer term work may be counted in residence, but in no case may the period of residence aggregate less than thirty weeks. Unless special permission is granted by the Dean to pursue work elsewhere, the work of the senior or final year must be completed in residence.

#### CURRICULUM REQUIREMENTS

The satisfactory completion of one of the following curricula of 144 credit hours is required.

Variations from the prescribed curricula may be made, with the permission of the Dean's Council. A student desiring to omit a required course and substitute another must make written application to the Dean, presenting satisfactory reasons for the substitution; and written approval must be obtained before registration for the course.

FRESHMAN YEAR (FOR ALL ENGINEERING CURRICULA)		Credit Hours
*Chem. 11-12	General Chemistry .....	8
CE 2	Plane Surveying .....	3
Engl. 1-2	Freshman English .....	6
Math. 12	Plane Analytic Geometry .....	3
Math. 19	Differential Calculus .....	3
ME 1	Engineering Survey and Orientation .....	1
ME 3	Mechanical Drawing .....	2
ME 4	Descriptive Geometry .....	2
Phys. Ed.	Physical Education .....	2
†Phys. 6 and 7	General Physics .....	6
Total .....		36

\* The student who has credit for high school chemistry from an accredited high school may be exempt from Chemistry 11 upon passing a qualifying examination given at the beginning of each term (see "Examinations for students who wish to qualify for advanced courses" in the University Calendar). He will be permitted to take Chemistry 12 and 21 instead.

† The student who begins Physics with Physics 6 or 7 is subject to a qualifying examination. Credit will be given for Physics 5 or Chemistry 11 if not used for entrance requirements.



## Bachelor of Civil Engineering

## SOPHOMORE YEAR

		Credit Hours
CE 21	Analytical Mechanics: Statics .....	2
CE 22	Analytical Mechanics: Dynamics .....	3
CE 23	Higher Surveying .....	4
EE 9-10	Elements of Electrical Engineering .....	6
Geol. 21-22	Physical and Historical Geology .....	6
Math. 20	Integral Calculus .....	3
Phys. Ed.	Physical Education .....	2
Phys. 8	General Physics .....	2
Elective	Economics 1-2 or modern language .....	6
Elective	.....	3
Total .....		37

## JUNIOR YEAR

		Credit Hours
CE 25-26	Engineering Materials .....	4
CE 123	Strength of Materials .....	3
CE 136	Hydraulics .....	3
CE 140	Materials and Hydraulics Laboratory .....	2
CE 141	Graphic Statics .....	3
CE 142	Bridge Structures .....	3
CE 164	Highway Engineering .....	3
CE 171	Route Surveying .....	3
CE 172	Railroad Engineering .....	3
CE 187	Engineering Contracts and Specifications .....	2
ME 111-12	Thermodynamics .....	6
Speech 21	Public Speaking .....	3
Total .....		38

## SENIOR YEAR

		Credit Hours
CE 147-48	Structural Design .....	4
CE 149-50	Concrete and Masonry Construction .....	6
CE 151-52	Statically Indeterminate Structures .....	4
CE 181-82	Water Supply and Sewerage .....	6
CE 189-90	Civil Engineering Practicum .....	2
ME 141-42	Management Problems .....	4
Elective	.....	7
Total .....		33

## Bachelor of Electrical Engineering

## SOPHOMORE YEAR

		Credit Hours
CE 21	Analytical Mechanics: Statics	2
CE 22	Analytical Mechanics: Dynamics	3
EE 9-10	Elements of Electrical Engineering	6
Math. 20	Integral Calculus	3
Math. 132	Differential Equations	3
ME 13-14	Mechanism	4
Phys. Ed.	Physical Education	2
Phys. 8	General Physics	2
Phys. 55	Physical Measurements	2
Speech 21	Public Speaking	3
Elective	Economics 1-2 or modern language	6
Total		30

## JUNIOR YEAR

		Credit Hours
I. Communications Option		
CE 123	Strength of Materials	3
EE 105-6	Direct-Current Laboratory	4
EE 107	Electric Circuits	3
EE 108	Alternating-Current Machinery	3
EE 111-12	Electrical Measurements	4
EE 118	Advanced Network Theory	3
EE 120	Advanced Network Laboratory	2
ME 111-12	Thermodynamics	6
Phys. 132	Electronics	3
Elective		5
Total		30

## SENIOR YEAR

		Credit Hours
CE 25-26	Engineering Materials	4
CE 136	Hydraulics	3
EE 130	Alternating-Current Machinery	3
EE 119	Advanced Network Theory	3
EE 121	Advanced Network Laboratory	2
EE 133-34	Alternating-Current Laboratory	4
EE 142	Radio Wave Propagation	3
EE 146	Radio Wave Propagation Laboratory	2
EE 148	Applications of Electronic Devices	3
EE 189-90	Power and in Electrical Engineering	2
Phys. 133	Electronics	3
Elective		4
Total		30

JUNIOR YEAR		Credit Hours
2. Power Option		
CE 123	Strength of Materials .....	3
CE 136	Hydraulics .....	3
EE 125-6	Direct-Current Laboratory .....	4
EE 127	Electric Circuits .....	3
EE 128	Alternating-Current Machinery .....	3
EE 111-12	Electrical Measurements .....	4
EE 136	Hydro-Electric Engineering .....	2
EE 137	Electric Traction .....	2
ME 111-12	Thermodynamics .....	6
Phys 132	Electronics .....	3
Elective	.....	5
Total .....		30

SENIOR YEAR		Credit Hours
CE 25-26	Engineering Materials .....	4
EE 139	Alternating Current Machinery .....	3
EE 125-26	Principles of Electric Power Transmission .....	4
EE 133-34	Alternating Current Laboratory .....	4
EE 138	Industrial Electrical Power Applications .....	2
EE 139	Transmission Engineering .....	2
EE 140	Electrical Design .....	3
EE 187-90	Proseminar in Electrical Engineering .....	2
ME 115	Mechanical Laboratory .....	2
Elective	Business Administration or Economics .....	6
Elective	.....	4
Total .....		36

### Bachelor of Mechanical Engineering

SOPHOMORE YEAR		Credit Hours
CE 21	Analytical Mechanics Statics .....	2
CE 22	Analytical Mechanics Dynamics .....	3
EE 9-13	Elements of Electrical Engineering .....	6
Math. 2	Integral Calculus .....	3
ME 7	Machine Drawing .....	2
ME 8	Mechanism Drawing .....	2
ME 13-14	Mechanisms .....	4
Phys. Ed.	Physical Education .....	2
Phys. 8	General Physics .....	2
Phys. 55	Physical Measurements .....	2
Elective	Foreign language 1-2 or modern language .....	6
Elective	Mathematics .....	3
Total .....		37

JUNIOR YEAR		Credit Hours
CE 25-26	Engineering Materials .....	4
CE 123	Strength of Materials .....	3
CE 136	Hydraulics .....	3
CE 140	Materials and Hydraulics Laboratory .....	2
CE 141	Graphic Statics .....	3
EE 13-14	Direct- and Alternating-Current Laboratory .....	4
ME 111-12	Thermodynamics .....	6
ME 141-42	Management Problems .....	4
Speech 21	Public Speaking .....	3
Elective	.....	3
Total .....		35

SENIOR YEAR		Credit Hours
ME 115-16	Mechanical Laboratory .....	4
ME 126	Methods of Manufacture .....	2
ME 127-28	Mechine Design .....	4
ME 129-30	Power Plant .....	6
ME 131-32	Heating, Ventilating, Air Conditioning, and Refrigeration .....	4
ME 133	Combustion Engines .....	2
ME 139	Fluid Dynamics .....	3
ME 14	Dynamics of Machinery .....	3
ME 189-90	Practicum in Mechanical Engineering .....	2
Elective	.....	6
Total .....		39

**Bachelor of Science in Engineering**

SOPHOMORE YEAR		Credit Hours
CE 21	Analytical Mechanics: Statics .....	2
CE 22	Analytical Mechanics: Dynamics .....	3
EE 9-10	Elements of Electrical Engineering .....	6
Math. 20	Integral Calculus .....	3
ME 13-14	Mechanism .....	4
Phys. Ed.	Physical Education .....	2
Phys. 8	General Physics .....	2
Elective	Business Administration or Speech .....	3
Elective	Economics 1-2 or modern language .....	6
Elective	Mathematics .....	3
Elective	Physics .....	3
Total .....		37



JUNIOR YEAR

		Credit Hours
CE 25-26	Engineering Materials .....	4
CE 123	Strength of Materials .....	3
CE 136	Hydraulics .....	3
CE 140	Materials and Hydraulics Laboratory .....	2
EE 13-14	Direct- and Alternating-Current Laboratory .....	4
ME 111-12	Thermodynamics .....	6
Elective	.....	14
Total .....		36

SENIOR YEAR

		Credit Hours
Bus. Adm. 101	Business Organization and Coordination .....	3
Bus. Adm. 102	Business Management .....	3
Geol. 21-22	Physical and Historical Geology .....	6
ME 141-42	Management Problems .....	4
Elective	.....	19
Total .....		35

The purpose of the Bachelor of Science in Engineering curriculum is to allow a student who has demonstrated his ability to do better than passing work to center his attention upon a group of subjects in which he has special interest. Options may be elected in Business Administration, Chemistry, Economics, Mathematics, Naval Architecture, Physics, or Statistics. The student's choice of subjects for the entire junior and senior years must be submitted to the Dean's Council for approval before the beginning of the junior year. The student must comply with such requirements as to subjects, schedules, and scholarship as the department concerned may prescribe.

Curricula recommended by the several departments in which options may be elected are available in the Office of the Dean of the School of Engineering for the guidance of students in arranging their programs. Variations from these curricula may be made to satisfy the needs of the exceptional individual student. However, any variation must be approved in writing by the major department and the Dean's Council.

THE PROFESSIONAL DEGREES

The professional degree of Civil Engineer, Electrical Engineer, or Mechanical Engineer may be conferred upon a graduate of the School of Engineering who has demonstrated his professional ability.

## REQUIREMENTS FOR THE DEGREES

1. Application may not be made sooner than three years after graduation, and then only if the candidate has had responsible charge of engineering work.

2. A detailed statement of the candidate's experience, references, the degree sought, and the title of the dissertation must be filed with the Dean eight months before the Commencement at which the degree is to be conferred.

Detailed information concerning the preparation of the dissertation may be obtained from the Office of the Dean.

## THE SCHOOL OF PHARMACY

### THE FACULTY AND STAFF OF INSTRUCTION •

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
Charles Watson Bliven, M.S., *Dean of the School of Pharmacy*

---

Walter Lynn Cheney, Ph.D., *Professor of Physics*  
Ira Bowers Hansen, Ph.D., *Professor of Zoology*  
Paul William Bowman, Ph.D., *Professor of Biology*  
Lawson Edwin Yocum, Ph.D., *Professor of Botany*  
Charles Watson Bliven, M.S., *Professor of Pharmaceutical Chemistry*  
Alan Thomas Deibert, A.M., *Professor of Romance Languages*  
Chester Elwood Leese, Ph.D., *Professor of Physiology*  
William Paul Briggs, M.S., Sc.D., *Professorial Lecturer in Pharmacy*  
Angus MacIvor Griffin, Ph.D., *Associate Professor of Bacteriology*  
Gretchen Louisa Rogers, Ph.D., *Associate Professor of German*  
Carleton Raymond Treadwell, Ph.D., *Associate Professor of Biochemistry*  
Robert Corbin Vincent, Ph.D., *Associate Professor of Chemistry*  
Jane Gass, M.S., *Assistant Professor of Pharmacology and Pharmacognosy*  
Asa Vernon Burdine, *Lecturer on Pharmaceutical Economics*  
Harold Clayton Kinner, B.S. in Phar., *Lecturer on Pharmaceutical Law*  
Arthur William Jones, Phar.G., *Instructor in Pharmacy*

### SEMINAR LECTURERS

James Johnson Durrett, M.S., Phar.G., M.D., *Professorial Lecturer on Drug Control Problems*  
Carson Peter Frailey, Phar.D., *Professorial Lecturer on Industrial Pharmacy*  
Frederick John Cullen, Phar.G., M.D., *Professorial Lecturer on Drug Manufacture*  
James Albert Horton, LL.B., *Professorial Lecturer on Drug Trade Regulations*

\* The President of the University, the Dean of the School, the Registrar of the University, the Director of Admissions of the University, Professors, Assistant Professors, Associate Professors, Assistant Professors, and Instructor are members of the Faculty.

- John Christian Krantz, Jr., Ph.D., *Professorial Lecturer on Pharmaceutical Research*  
 Justin Lawrence Powers, Ph.D., *Professorial Lecturer on Official Drug Standards*  
 George Clemens Ruhland, M.D., *Professorial Lecturer on Hygiene and Sanitation*  
 Robert Lee Swain, Phar.D., LL.B., *Professorial Lecturer on Contemporary Pharmacy*  
 George Potter Larrick, *Professorial Lecturer on Drug Control*  
 Robert Philipp Fischelis, B.S., Phar.D., Sc.D., *Professorial Lecturer on Pharmaceutical Organizations*  
 James Anderson Crabtree, M.D., D.Ph., *Professorial Lecturer on Public Health*

## COMMITTEES\*

## ADVISORY COMMITTEE

Howard Bradbury

Augustus Carrier Taylor

## THE DEAN'S COUNCIL ‡

Alan Thomas Deibert

Robert Corbin Vincent

Jane Gass

## COMMITTEE ON SCHOLARSHIP

Lawson Edwin Yocum, *Chairman*

Ira Bowers Hansen

Robert Corbin Vincent

## GENERAL INFORMATION

## INTRODUCTORY

In 1867 the foundation for the National College of Pharmacy was laid by the Apothecaries' Association of the District of Columbia. The College was opened in 1872 and continued until 1906, when it became affiliated with The George Washington University.

The School of Pharmacy is accredited by the American Council on Pharmaceutical Education.

The School of Pharmacy is a member of the American Association of Colleges of Pharmacy.

Washington offers many opportunities for the study of pharmacy. Not only are the facilities of government laboratories and libraries open to the student, but the School of Pharmacy is located only a few blocks from

\* The President of the University and the Dean of the School of Pharmacy are members ex officio of all committees.

‡ Elected by the Faculty.



the American Institute of Pharmacy building, in which has been established a pharmaceutical museum and library, and research laboratories which have brought to Washington the outstanding men of the profession.

### REGULATIONS

*Students in the School of Pharmacy are subject to and are expected to familiarize themselves with the regulations concerning ADMISSION, REGISTRATION, FEES AND FINANCES as stated on pages 10-22, and the University regulations stated on pages 34-40.*

### AMOUNT OF WORK

Normal work for any year is that outlined under the head of "Curriculum Requirements", below. A student who wishes to take more than the normal amount of work may do so only with the permission of the Committee on Scholarship, the members of which are guided in their decision by his scholastic record and the extent to which he is employed. A student on probation is limited in the amount of work he may carry.

### ATTENDANCE

Except by special permission of the instructor, credit will not be given for any course if absences, including both lecture and laboratory, exceed in number for each term the hours of credit for the term.

Absence consists of being away from a lecture or a laboratory, entering after the lecture or laboratory has begun, or leaving before either is dismissed.

### EXAMINATIONS BEFORE STATE BOARDS OF PHARMACY

To be eligible for examination before most state boards of pharmacy the applicant is required to present satisfactory evidence of college graduation and in addition must have had from one to four years of practical experience in a pharmacy where prescriptions are compounded. The student is not encouraged to undertake professional work while attempting a full course of study. A student who maintains a quality-point index of 2.00 or higher, may be granted permission by the Dean to acquire a limited amount of this professional experience by working in a pharmacy while carrying a full schedule. A student who falls below a quality-point index of 2.00 will be required to reduce his academic load, or to limit his professional-experience time to less than twenty-four hours a week.

## THE DEGREE OF BACHELOR OF SCIENCE IN PHARMACY

Upon the satisfactory completion of the requirements of the School of Pharmacy, the degree of Bachelor of Science in Pharmacy is conferred.

## REQUIREMENTS FOR THE DEGREE

## SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 34 and 35.

In order to graduate, a student must have a general quality-point index of at least 2.00. In addition, he must have a quality-point index of at least 2.50 in all pharmacy courses.

*Probation.*—A student must maintain a quality-point index of at least 2.00, or be placed on probation where he will remain as long as he fails to attain this index.

*Suspension.*—A student who has a quality-point index below 1.50 will be suspended. The case of each student who has a quality-point index between 1.35 and 1.50, however, will be considered by the Committee on Scholarship, which may retain him on probation or suspend him.

A student placed on probation for a third term, whether successive or after an interval, will be suspended. A student who receives a grade of *F* in two courses in any one term will be suspended.

A student suspended for poor scholarship may apply for readmission after an interval of a calendar year. He must then submit evidence to the Dean of the School of Pharmacy that during his absence from the University he has so conducted himself as to indicate that he will profit by readmission. A student suspended twice for poor scholarship will not be readmitted.

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The foregoing scholarship rules are applied to a student with a limited schedule only when he has undertaken a minimum of fifteen credit hours.

## CURRICULUM

The laboratory method of teaching is used. Recitation classes are held in connection with each course in order to provide systematic drill in the subjects.

The curriculum requirements include at least 126 credit hours. The following curriculum leads to the degree of Bachelor of Science in Pharmacy.

## Freshman and Sophomore Years

Courses	Did. hrs.	Lab. hrs.	Credit hrs.	Clock hrs.
Courses in the Junior College (see page 57):	74	84	(50)	1568

## Junior Year: Fall Term

Courses	Did. hrs.	Lab. hrs.	Credit hrs.	Clock hrs.
Chemistry 151.....	48	48	4	96
Electronics 1.....	48	.....	3	48
Pharmacy 105.....	32	.....	2	32
Pharmacy 109.....	32	48	3	80
Physiology 115.....	48	.....	3	48
Physiology 117.....	.....	48	1	48
Total.....	208	144	16	352

## Junior Year: Winter Term

Bacteriology 112.....	48	96	4	144
Chemistry 152.....	48	48	4	96
Pharmacy 102.....	32	96	4	128
Pharmacy 106.....	32	.....	2	32
Pharmacy 110.....	32	48	3	80
Total.....	192	288	17	480

## Senior Year: Fall Term

Bacteriology 209 (adj).....	32	.....	2	32
Biochemistry 221.....	32	64	4	96
Pharmacy 173.....	32	96	4	128
Pharmacy 165.....	48	.....	3	48
Pharmacy 173.....	32	96	4	128
Total.....	176	256	17	432

\* With permission of the Dean, Biochemistry 221-22 may be replaced by other courses, for purposes of specialization.



## Senior Year: Winter Term

Biochemistry 222.....	32	1	04	1	4	1	96
Pharmacy 166.....	32	1	48	1	3	1	82
Pharmacy 176.....	16	1	.....	1	1	1	16
Pharmacy 178.....	32	1	.....	1	2	1	32
Pharmacy 188.....	32	1	.....	1	2	1	32
Pharmacy 192.....	10	1	48	1	2	1	04
Elective.....	.....	1	96	1	2	1	96
Total.....	160	1	256	1	16	1	416
Grand total.....	1440	1	1808	1	135	1	3248

## THE DEGREE OF MASTER OF SCIENCE IN PHARMACY

Upon the satisfactory completion of the graduate requirements of the School of Pharmacy, the degree of Master of Science in Pharmacy is conferred.

## DEFINITION OF THE MASTER'S WORK

The study leading to the degree of Master of Science in Pharmacy is a comprehensive survey of one or more of the fields of knowledge embraced by Pharmacy. It is a continuation of the work of the student's undergraduate major and involves a greater acquaintance with scholarly method.

The student must satisfy certain minimum requirements as to previous preparation, residence, ability to read an approved modern foreign (European) language, and courses taken; but these requirements, while essential, are regarded primarily as qualifying measures. The student's knowledge of his field, as demonstrated by his thesis and by the results of his Master's examination (together with such other examinations involving special skills or techniques as may be required), is the basis upon which the Master's degree is conferred. The foreign language requirement may be waived by faculty action in the instance of students whose field of study at the Master's level may not require such preparation.

## REQUIREMENTS FOR THE DEGREE

## RESIDENCE

An academic year of residence is required, i.e., completion of a minimum of thirty credit hours of work including the thesis, which is counted as the equivalent of six credit hours of course work. Summer

\* With permission of the Dean, Biochemistry 221-22 may be replaced by other courses, for purposes of specialization.



term work may be counted in residence, but in no case may the period of residence aggregate less than twenty-seven weeks. Not more than twelve credit hours (which must be approved in advance by the Dean of the School of Pharmacy) may be taken in another school or division of this University, and such work may not be counted toward both a degree in that school or division and the Master's degree in the School of Pharmacy.

#### AMOUNT OF WORK

A student whose previous preparation in his chosen field has been adequate may complete his requirements, including the thesis, by a minimum of thirty credit hours; others are required to do additional work. First-group courses may not be credited toward the Master's degree. Pharmacy courses numbered below 200 may not be credited toward the Master's degree.

#### ADMISSION TO CANDIDACY

In addition to admission requirements stated on page 16, the applicant for admission to candidacy for the Master's degree must be approved by the appropriate representative of the department of Pharmacy and by the Dean.

#### SCHOLARSHIP

A student whose scholarship is considered unsatisfactory may be suspended by the Dean upon recommendation of the staff member under whom the student is working.

#### THE MASTER'S THESIS

The thesis may be of a research, expository, critical, or creative type. The main purpose of a Master's thesis is to demonstrate the student's ability to make independent use of the information and training acquired through his other disciplines, and to furnish objective evidence of his constructive powers in his chosen field. Registration for the thesis must be no later than the beginning of the final year of preparation, unless the professor in charge of the thesis permits registration at the beginning of the final term. The choice of the thesis subject must be approved by the professor in charge of the student's field and recorded in the Office of the Registrar by the date announced in the University calendar. Registration for the thesis is ordinarily made on the basis of three credit hours for two successive terms. In exceptional cases, and with the approval of the professor in charge of the thesis, the student may register for the entire six credit hours during a single term. The typewritten thesis in its final form must have the approval of the professor in charge of the student's field and must be presented to the Dean by the student not later than the date announced in the University calendar.

Requirements regarding the form of the thesis are stated on page 38, and additional information will be supplied by the Dean.

Payment of tuition for the thesis entitles the candidate, during the academic year of registration, to the advice and direction of the member of the faculty under whom the thesis is to be written. In case a thesis is unfinished, an additional successive academic year may be granted without further tuition payment. If the preparation of the thesis extends beyond the two-year period the student must register for it again, and pay tuition on the same basis as for a repeated course.

#### FINAL EXAMINATION

In addition to the course examinations, the candidate must pass a final examination on the thesis and its related fields. This examination may be either written or oral at the discretion of the faculty.

If the thesis is submitted more than three years after the course requirements have been completed, a written examination covering the student's complete program of study will also be required.

## THE SCHOOL OF EDUCATION

### THE FACULTY AND STAFF OF INSTRUCTION\*

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
James Harold Fox, A.M., Ed.D., *Dean of the School of Education*

---

Henry Grattan Doyle, A.M., *Professor of Romance Languages*  
Ruth Harriet Atwell, A.M., *Professor of Physical Education for Women*  
Frank Mark Weida, Ph.D., *Professor of Statistics*  
‡Mitchell Dreese, Ph.D., *Professor of Educational Psychology*  
James Harold Fox, A.M., Ed.D., *Professor of Education*  
Thelma Hunt, Ph.D., M.D., *Professor of Psychology*  
Frances Kirkpatrick, A.M., *Professor of Home Economics*  
William Henry Myers, A.M., *Professor of Physical Education for Men*  
Burnice Herman Jarman, A.M., Ed.D., *Professor of Education*  
Chester Elwood Leese, Ph.D., *Professor of Physiology*  
William Cullen French, Ph.D., *Professor Emeritus of Education in Residence*  
Meredith Chester Wilson, B.S., *Adjunct Professor of Education*  
Ruth Coyner Little, Ph.D., *Professorial Lecturer in Education*  
Lindley Hoag Dennis, A.M., Voc.Ed.D., *Professorial Lecturer in Education*  
§Ray LaForest Hamon, Ph.D., *Professorial Lecturer in Education*  
§Benjamin Franklin Kyker, A.M., *Professorial Lecturer in Education*  
Charles Edward Bish, A.M., Ed.D., *Professorial Lecturer in Education*  
§Henry Fred Alves, A.M., *Professorial Lecturer in Education*  
Helen Bennett Lawrence, A.M., *Associate Professor of Physical Education for Women*  
Kathryn Mildred Towne, A.M., *Associate Professor of Home Economics*  
Elizabeth Burtner, A.M., *Associate Professor of Physical Education for Women*  
Joseph Henry Krupa, M.S., *Associate Professor of Physical Education for Men*  
Frederick Barton Tuttle, Ph.D., *Associate Professor of Education*

\* The President of the University, the Dean of the School, the Registrar of the University, the Director of Admissions of the University, Professors, Adjunct Professors, Associate Professors, Assistant Professors, and Instructors constitute the Faculty.

‡ On sabbatical leave full term 1948-49.

§ On leave of absence 1948-49.

- Ralph Windsor Ruffner, A.M., *Associate Professor of Education*  
 Blake Smith Root, A.M., *Associate Professor of Education*  
 Dorothy Helene Veon, A.M., Ed.D., *Assistant Professor of Secretarial Studies*  
 Margaret Olive Osborn, M.S., *Assistant Professor of Home Economics*  
 Virginia Loretta Dennis, A.B., *Assistant Professor of Physical Education for Women*  
 Raymond George Hanken, B.S. in P.E., *Assistant Professor of Physical Education for Men*  
 Marjorie Tate, A.M., *Assistant Professor of Physical Education for Women*  
 Arthur Hoppe, M.S., Ed.D., *Assistant Professor of Education*  
 Jane Frost Hilder, A.M., *Lecturer in Education, Director of Reading Clinic*  
 \*Madaline Kinter Remmlein, Ph.D., J.D., *Lecturer in Education*  
 LuVerne Crabtree Walker, A.M., *Lecturer in Education*  
 Helen Barton Goodwin, A.M., *Lecturer in Education*  
 Ralph Waldo Foster, A.M., *Lecturer in Physical Education for Men*  
 Camilla Painter Leucke, A.M., *Lecturer in Education*  
 Florence Mary Lumsden, A.M., Ed.D., *Lecturer in Education*  
 William Samuel Rumbough, A.M., *Lecturer in Education*  
 Cannon Chiles Hearne, A.M., *Lecturer in Education*  
 Catherine Prentiss, B.S., *Instructor in Physical Education for Women*  
 Marie Marguerite Neeb, A.M., *Clinician, Reading Clinic*

## CONSULTANT IN RESEARCH

- Benjamin William Frazier, Ed.D., *Specialist for Teacher Education, Division of Higher Education, United States Office of Education*

## COMMITTEES‡

## THE DEAN'S COUNCIL§

1949

Mitchell Dreese  
 Helen Bennett Lawrence

1950

Dorothy Helene Veon  
 Arthur Hoppe

1951

Thelma Hunt  
 Frances Kirkpatrick

\* On leave of absence 1948-49.

‡ The President of the University and the Dean of the School of Education are members ex officio of all committees.

§ Elected by the Faculty.



COMMITTEE ON ADMISSION AND ADVANCED STANDING

The Dean of the School, *Chairman*

Harold Griffith Sutton  
Frances Kirkpatrick  
William Henry Myers

Frank Mark Weida  
Burnice Herman Jarman  
Ruth Harriet Atwell

COMMITTEE ON SCHOLARSHIP

Blake Smith Root, *Chairman*

William Henry Myers

Helen Bennett Lawrence

Kathryn Mildred Towne

GENERAL INFORMATION

INTRODUCTORY

It is the purpose of the School of Education to prepare teachers, supervisors, and administrators for the higher ranges of educational service and to offer opportunities to teachers of experience to extend their education. The School includes the departments of Education, Physical Education, and Home Economics. It offers both graduate and undergraduate work. Other departments of the University provide general education and subject-matter courses needed for a well-balanced program of teacher education.

The schedule of courses is arranged to meet the convenience of both full-time and part-time students. By attending evening, Saturday, and summer classes, teachers in the schools of Washington and vicinity may complete all the requirements for a degree without giving up their positions.

To help children and adults with reading difficulties, the School of Education operates a reading clinic for diagnosis and treatment.

REGULATIONS

*Students in the School of Education are subject to, and are expected to familiarize themselves with, the regulations concerning ADMISSION, REGISTRATION, FEES AND FINANCES stated on pages 10-22, and the University regulations stated on pages 34-40.*

AMOUNT OF WORK

A normal program of work for an undergraduate student is sixteen or seventeen credit hours. A student with a quality-point index of 3.00 or higher may, with the Dean's permission, take nineteen hours. More than nineteen hours may not be taken except by special permission of the Committee on Scholarship.

For an employed student ten credit hours constitute a normal program. A student with a quality-point index of 3.00 or higher for the

preceding term may be permitted by the Dean to take twelve or thirteen credit hours.

For a graduate student twelve credit hours, exclusive of the thesis, constitute a normal program. An employed student may not take more than nine credit hours.

### THE BACHELOR'S DEGREES

Upon the satisfactory completion of the undergraduate requirements of the School of Education, the degree of Bachelor of Arts in Education, Bachelor of Science in Home Economics, or Bachelor of Science in Physical Education is conferred.

The program of work of each student must be approved by a Faculty adviser. Since each student's program of work will be defined by his particular needs, it is important that the student have a clear conception of his major interest in education, and also that he be familiar with the teaching-certificate requirements in the locality in which he expects to teach.

#### REQUIREMENTS FOR THE DEGREES

To be recommended for a degree a student must satisfy the admission, residence, scholarship, and curriculum requirements.

##### RESIDENCE

For full details concerning continuous registration, see page 34.

##### SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 34 and 35.

In order to graduate, a student must have a quality-point index of at least 2.00.

*Probation.*—An undergraduate student who fails to maintain a quality-point index of at least 2.00 will be placed on probation. A student remains on probation as long as his quality-point index is below 2.00, or until his probation is removed by the Committee on Scholarship.

*Suspension.*—An undergraduate student who fails to pass in half of more than half of his work, based on a minimum of sixteen credit hours, will be suspended.

A student who has been suspended for poor scholarship may within ten days appeal his case to the Committee on Scholarship through the Dean. If the case appears to be remediable and the student appears likely to improve in his scholarship thereafter, the Committee may readmit him on probation. A student who has been denied readmission on probation may petition the Committee on Scholarship through the Dean for readmission after the lapse of a calendar year. A student who has been suspended twice will not be readmitted.

## CURRICULUM REQUIREMENTS

In any of the following curricula at least thirty credit hours must consist of courses numbered above 100.

## Bachelor of Arts in Education

Programs leading to the degree of Bachelor of Arts in Education have three main objectives: (1) provision of general educational backgrounds, (2) a functional command of ideas, concepts, knowledges, and skills in one or more teaching fields, and (3) a mastery of basic professional information and skills adequate for a beginning teacher. Since the contents of teaching fields differ in scope and complexity, some programs are longer than others in terms of credit hours. None require less than 126 credit hours of satisfactory work, exclusive of required Physical Education. Normally, 60 credit hours of the total requirement are completed in the Junior College of the University or in an equivalent institution elsewhere. (See "Education", page 58.)

The general educational backgrounds needed by prospective teachers are obtained through: (1) pre-college education, (2) college courses, (3) work experience, (4) leadership activities, (5) participation in student campus activities, and (6) utilization of off-campus cultural opportunities.

Teaching-field requirements include satisfactory completion of prescribed academic courses in one or more fields, a satisfactory score on the special field examination of the National Teacher Examinations, and satisfactory completion of the prescribed special methods courses. Programs of study are available in the following fields: art, biology, business education, chemistry, elementary education, English, French, geography, German, history, mathematics, physics, social studies, Spanish, and speech.

The basic professional information and skills needed by beginning teachers are provided through four one-year courses, two in each of the junior and senior years. Lectures and class discussions are closely coordinated with field work. Instruction is differentiated to meet the needs of those preparing to teach on the various levels—elementary school, junior high school, senior high school, and adult.

PROFESSIONAL COURSES		Credit Hours
Education 109-10: Learning and Teaching.....		6
Education 121-22: Society and the School.....		6
Education 131: Common Teaching Skills.....		3
Education 133-34: Observation and Practice Teaching.....		6
Education 136 to 150: Special Methods.....		2-6
Total.....		23-27

Additional information concerning these programs may be obtained by writing to the Dean of the School of Education.



**Bachelor of Science in Home Economics**

The curriculum leading to this degree is designed to prepare young women for the important responsibility of home-making. The program can be adapted, however, to meet special requirements in nutrition, dietetics, clothing, and other related fields. Each student must plan her work with the assistance of a Faculty adviser in the Department of Home Economics.

**GENERAL HOME-MAKING**

JUNIOR YEAR		Credit Hours	SENIOR YEAR		Credit Hours
Home Economics 53	.....	3	Home Economics 152	.....	3
Home Economics 72	.....	3	Home Economics 171	.....	3
Home Economics 102	.....	3	Home Economics 181	.....	3
Home Economics 123	.....	3	Home Economics 192	.....	3
Physiology 115	.....	3	Home Economics 197-98	.....	6
Electives	.....	15	Psychology 29	.....	3
			Electives	.....	9
Total	.....	30	Total	.....	30

**Bachelor of Science in Physical Education for Men**

There are three curricula leading to this degree. The Dual-Major Teacher's Course is designed to prepare students for teaching positions in smaller schools where it is necessary to teach an academic subject in addition to physical education. The Single-Major Teacher's Course prepares for the teaching of physical education in the larger schools. The Physical Education and Recreation Course has been planned for those who wish to be prepared to direct programs of recreation in addition to the teaching of physical education.

The minimum requirements for this degree are sixty-six credit hours, distributed as follows:

**DUAL-MAJOR TEACHER'S COURSE**

The minimum requirements for this degree are twenty-four credit hours in physical education, eighteen credit hours in education, eighteen credit hours in an academic teaching field, three credit hours in physiology, and three credit hours of electives, distributed as follows:

JUNIOR YEAR		Credit Hours	SENIOR YEAR		Credit Hours
Education 121-22	.....	6	Education 131	.....	3
Education electives	.....	3	Education 133-34	.....	6
Physical Education 102	.....	3	Physical Education 103	.....	3
Physical Education 107	.....	2	Physical Education 122	.....	3
Physical Education 113-14	.....	4	Physical Education 131	.....	3
Physical Education electives	.....	3	Physical Education 138	.....	3
Physiology 115	.....	3	Academic teaching field	.....	9
Academic teaching field	.....	9	Electives	.....	3
Total	.....	33	Total	.....	33



## SINGLE-MAJOR TEACHER'S COURSE

The minimum requirements for this degree are thirty-five credit hours in physical education, eighteen credit hours in education, three credit hours in physiology, and ten credit hours of electives:

JUNIOR YEAR	Credit Hours	SENIOR YEAR	Credit Hours
Education 121-22 .....	6	Education 131 .....	3
Education electives .....	3	Education 133-34 .....	6
Physical Education 102 .....	3	Physical Education 123 .....	3
Physical Education 107 .....	2	Physical Education 122 .....	3
Physical Education 109-10 .....	4	Physical Education 124 .....	3
Physical Education 113-14 .....	4	Physical Education 125 .....	3
Physical Education 115-16 .....	4	Physical Education 131 .....	3
Physiology 115 .....	3	Physical Education 138 .....	3
Electives .....	4	Electives .....	6
Total .....	33	Total .....	33

## PHYSICAL EDUCATION AND RECREATION COURSE

The minimum requirements for this course are sixty-six credit hours, distributed as follows:

JUNIOR YEAR	Credit Hours	SENIOR YEAR	Credit Hours
Education 121-22 .....	6	Education 131 .....	3
Physical Education 102 .....	3	Education 133-34 .....	6
Physical Education 107 .....	2	Physical Education 123 .....	3
Physical Education 109-10 .....	4	Physical Education 122 .....	3
Physical Education 113-14 .....	4	Physical Education 131 .....	3
Physical Education 151-52 .....	6	Physical Education 138 .....	3
Electives .....	8	Physical Education 153-54 .....	6
Total .....	33	Physical Education 161-62 .....	6
		Total .....	33

## Bachelor of Science in Physical Education for Women

There are three curricula leading to this degree. The Dual-Major Teacher's Course is designed to prepare students for teaching positions in smaller schools where it is necessary to teach an academic subject in addition to physical education. The Single Major Teacher's Course prepares for the teaching of physical education in the larger schools. The Physical Education and Recreation Course has been planned for those who wish to be prepared to direct programs of recreation in addition to the teaching of physical education.

The minimum requirements for this degree are sixty-six credit hours, distributed as follows:

**DUAL OR SINGLE MAJOR TEACHER'S COURSE**

The student desiring to prepare herself to teach another subject in addition to Physical Education for Women may do so by choosing her elective hours from one subject-matter field with the advice of the Dean of the School of Education. Relevant work completed in the Junior College may be counted in this subject-matter field.

JUNIOR YEAR		Credit Hours	SENIOR YEAR		Hours Credit
Education 121-22 .....	6		Education 133-34 .....	6	
Physical Education 102 .....	3		Physical Education 119-20 .....	4	
Physical Education 103 .....	2		Physical Education 121, 122 .....	6	
Physical Education 105-6 .....	6		Physical Education 130 .....	3	
Physical Education 111-12 .....	4		Physical Education 131 .....	3	
Physical Education 132 .....	1		Physical Education 140 .....	3	
Physiology 115 .....	3		Academic teaching field or electives	8	
Academic teaching field or electives	8				
Total .....	33		Total .....	33	

**PHYSICAL EDUCATION AND RECREATION COURSE**

JUNIOR YEAR		Credit Hours	SENIOR YEAR		Credit Hours
Education 121-22 .....	6		Education 133-34 .....	6	
Physical Education 48 .....	1		Physical Education 119 .....	2	
Physical Education 102 .....	1		Physical Education 121, 122 .....	6	
Physical Education 103 .....	1		Physical Education 140 .....	3	
Physical Education 105-6 .....	6		Physical Education 153-54 .....	6	
Physical Education 111-12 .....	4		Physical Education 161 .....	3	
Physical Education 132 .....	1		Electives .....	7	
Physical Education 151-52 .....	6				
Physiology 115 .....	3		Total .....	33	
Total .....	33				

**THE DEGREE OF MASTER OF ARTS IN EDUCATION**

Upon the satisfactory completion of the graduate requirements of the School of Education, the degree of Master of Arts in Education is conferred. This is a professional degree, designed to prepare the student for some particular type of educational service. The program of studies leading to the degree will be selected by the candidate and his adviser from the various related departments of the University to give the student an adequate background in his chosen vocational field. For the prospective high school or junior high school teacher this will ordinarily include study in the subject which he is planning to teach as well as in the field of education.

In accordance with the foregoing general pattern of work, graduate programs of study are available in early childhood education, elementary education in the intermediate grades, elementary school administration, guidance, agricultural education, adult education, and the various teach-

ing fields in secondary education. Programs of work for teachers-in-service are differentiated from those for students without teaching experience. Additional information concerning these programs may be obtained by writing to the Dean.

#### ADMISSION TO CANDIDACY

In addition to admission requirements stated on pages 16 and 17, the applicant for admission to candidacy for the Master's degree must (1) have a general undergraduate quality-point index of at least 2.50, (2) have demonstrated a genuine interest in teaching, and (3) be in possession of personality traits that give promise of better-than-average success as a teacher. Those desiring to prepare for positions in guidance or administration must have had at least two years of successful teaching experience. Candidates who have had no professional courses must satisfactorily complete twelve credit hours of undergraduate professional courses, including Observation and Practice Teaching, in addition to graduate course requirements.

#### ADVANCED STANDING

Graduate work completed in other accredited institutions of learning may be credited toward the Master's degree, but a minimum of thirty credit hours must be completed at The George Washington University as a matriculated candidate in the School of Education.

Advanced courses completed in excess of the requirements for the Bachelor's degree in this University may be credited toward the Master's degree to the extent of twelve credit hours, provided the work fits in with the student's plan of specialization and is approved in writing by the Dean before being undertaken.

Work completed more than three years prior to registration for the Master's degree at this University will be credited only after the candidate has satisfied the department concerned that he is proficient in the subject matter of the courses offered for credit. Such proficiency may be determined by examination or by other means.

#### REQUIREMENTS FOR THE DEGREE

##### RESIDENCE

A candidate must pass in resident study in the School of Education of this University at least two terms, or one term and two six-week summer sessions, or four six-week summer sessions.

##### PLANS OF STUDY

Two plans of study lead to the degree of Master of Arts. *Plan 1* requires a minimum of thirty hours of graduate credit, including a thesis carrying six hours of graduate credit. *Plan 2* requires a minimum of



thirty-three hours of graduate credit, including a course in *Educational Research Methods and Procedures* carrying three hours of graduate credit.

#### SELECTION OF COURSES

Programs of study under *Plan 1* must include a minimum of twelve credit hours from third group courses in addition to the thesis. Under *Plan 2* a minimum of eighteen credit hours, in addition to the course in *Educational Research Methods and Procedures*, must be from third group courses.

Programs of study must include a minimum of twelve credit hours from courses offered in the Department of Education.

When programs of study include additional academic preparation in one or more teaching fields, undergraduate and graduate courses combined must be at least equivalent to the undergraduate requirements of the Bachelor of Arts degree in the teaching field concerned.

#### THE THESIS

The thesis required under *Plan 1* must conform to standards prescribed by the Committee on Theses. A statement of these standards may be obtained at the Office of the Dean.

The thesis subject must be approved in writing by the candidate's adviser and recorded in the Office of the Registrar by the date announced in the University calendar. One typewritten original and three legible and complete carbon copies of the thesis in its final form must be presented to the Dean by the candidate not later than the date announced in the University calendar. Requirements regarding the form of the thesis are stated on page . . . , and additional information will be supplied by the Dean.

Payment of tuition for the thesis will entitle the candidate, during the academic year of registration, to the advice and direction of the member of the Faculty under whom the thesis is to be written. In case a thesis is unfinished, an additional successive academic year may be granted without further tuition payment. If the preparation of the thesis extends beyond the two-year period, it must be registered for again, and tuition paid on the same basis as for a repeated course.

#### COMPREHENSIVE EXAMINATION

In addition to the course examinations, the candidate must pass a professional comprehensive examination which shall take into account his area of specialization.

#### FIVE-YEAR PROGRAM

A candidate entering the School of Education from the Junior College (or with equivalent preparation) may choose a three-year program leading to the degrees of Bachelor of Arts and Master of Arts in Education



to be conferred simultaneously. The first year of this combined program will be devoted to teaching-field preparation; the work of the second year will include the Bachelor of Arts junior-year professional courses and a maximum of eighteen credit hours of graduate courses; that of the third and final year, senior-year undergraduate professional courses and the remaining graduate courses needed for the Master's degree. Observation and Practice Teaching to be elected in the third year may not be taken for graduate credit. A quality-point index of at least 2.50 must be attained before beginning the work of the senior year and the program must meet all the requirements of the degrees of Bachelor of Arts and the Master of Arts in Education.

#### THE DEGREE OF DOCTOR OF EDUCATION

The requirements for the degree of Doctor of Education cannot be stated in credit hours, but they consist in general of at least two full years of work beyond the degree of Master of Arts in Education or the equivalent. The programs of study are designed to prepare students for administrative or supervisory positions, the teaching of education in normal schools or colleges, the teaching of an academic subject in schools or colleges, or for specialized types of educational service. The work is given a practical rather than a theoretical bent, and emphasizes the mastery and application of subject matter, both in the study requirements and in the dissertation. Special emphasis is placed upon the professional success of the candidate.

The candidate's program of study largely depends upon his previous educational background and his professional objective. Opportunities are provided for study leading to the following professional objectives: school superintendent, secondary school principal, supervisor, director of guidance, director of curriculum development, professor of education, and specialist in educational research.

#### QUALIFICATIONS OF THE APPLICANT

The candidate for the degree of Doctor of Education must have completed (1) graduate work in fields prerequisite to his objective, equivalent to that required for the degree of Master of Arts in Education in The George Washington University, and (2) at least three years of successful educational experience.

#### ADMISSION TO CANDIDACY

To be admitted to candidacy for the degree the applicant must be accepted by the Faculty of the School of Education on the basis of an examination conducted by a committee appointed by the Dean. This

examination will usually include the following: (1) a written examination involving problems related to the applicant's background; (2) a scholastic-aptitude test; (3) an oral examination.

#### CONSULTATIVE COMMITTEE

If the applicant is accepted as a candidate, his consultative committee will counsel the candidate and guide his work.

The consultative committee, in cooperation with the candidate, will (1) determine the candidate's fields of study, in each of which the candidate must pass a written examination at least eight months before he presents himself for the degree; (2) formulate a list of course requirements and of readings that will assist him in preparing for these examinations; and (3) designate the tools of investigation that will be needed by the candidate in the prosecution of his study. These tools may include one or more foreign languages, statistical methods, historical criticism, or any others considered essential by the committee. An examination in the tools designated must be passed by the candidate before he takes his comprehensive examination.

#### THE DISSERTATION

When the candidate has satisfied the requirements of his consultative committee, the committee is dissolved. A member of the faculty, in whose field the topic of the dissertation falls, is then appointed to serve as the candidate's adviser on his dissertation and in his field of specialization, and to recommend him to the Dean for the final oral examination when, in his judgment, the candidate's dissertation is acceptable.

Not later than the date specified in the University calendar the candidate shall submit to the Dean of the School of Education four copies of his dissertation—one typewritten original and three legible and complete carbon copies, on official thesis paper—and also a typewritten summary of the dissertation consisting of not more than 2,500 words. Requirements regarding the form of the dissertation are stated on page 38, and additional information will be supplied by the Dean.

The successful candidate is required, before receiving his degree, to pay a fee to cover the expense of printing the summary of his dissertation.

#### THE FINAL EXAMINATION

At least three weeks before the degree is to be conferred the candidate must pass an oral examination on his dissertation and on his field of specialization before a committee of the Faculty appointed by the Dean, supplemented by two experts from outside the University appointed by the President. This examination is open to the public and all are privileged to question the candidate. The Dean, or a member of the Faculty designated by him, will preside at this examination.

## THE SCHOOL OF GOVERNMENT

### THE FACULTY AND STAFF OF INSTRUCTION •

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*

‡William Crane Johnstone, Jr., Ph.D., *Dean of the School of Government*

Arthur Edward Burns, Ph.D., *Acting Dean of the School of Government*

---

Richard Norman Owens, Ph.D., C.P.A., *Professor of Accounting and Business Administration*

Elmer Louis Kayser, Ph.D., LL.D., *Professor of European History*

Warren Reed West, Ph.D., *Professor of Political Science*

Frank Mark Weida, Ph.D., *Professor of Statistics*

Harold Griffith Sutton, M.S., *Professor of Finance*

Lowell Ragatz, Ph.D., *Professor of European History*

‡William Crane Johnstone, Jr., Ph.D., *Professor of Political Science*

§Mitchell Dreesse, Ph.D., *Professor of Educational Psychology*

Ralph Dale Kennedy, Ph.D., *Professor of Accounting and Business Administration*

Wood Gray, Ph.D., *Professor of American History*

Thelma Hunt, Ph.D., M.D., *Professor of Psychology*

John Albert Tillema, Ph.D., LL.M., S.J.D., *Professor of Political Science*

John Withrow Brewer, Ph.D., *Professor of International Law*

Arthur Edward Burns, Ph.D., *Professor of Economics*

||Howard Maxwell Merriman, Ph.D., *Professor of American Diplomatic History*

Donald Stevenson Watson, Ph.D., *Professor of Economics*

James Christopher Corliss, A.M., *Adjunct Professor of Inter-American Economics*

‡Henry Furness Hubbard, Ph.D., *Adjunct Professor of Psychology*

Gerhard Colm, Dr. rer. pol., *Professorial Lecturer in Economics*

Orton Wells Boyd, A.M., C.P.A., *Professorial Lecturer on Accounting*

Arlin Rex Johnson, Ph.D., *Professorial Lecturer on Marketing*

Ralph Aubrey Young, Ph.D., *Professorial Lecturer in Economics*

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• The President of the University, the Dean and Assistant Dean of the School, the Registrar of the University, the Director of Admissions of the University, Professors, Adjunct Professors, Associate Professors, and Assistant Professors constitute the Faculty.

‡ On leave of absence 1948-49.

§ On sabbatical leave full term 1948-49.

|| On sabbatical leave 1948-49.



- H. F. Arthur Schoenfeld, A.M., *Professorial Lecturer on European Diplomatic History*  
 Elmer Boyd Staats, Ph.D., *Professorial Lecturer on Public Administration*  
 Edward Campion Acheson, Ph.D., *Associate Professor of Finance*  
 Everett Herschel Johnson, Ph.D., *Associate Professor of Statistics*  
 Roderic Hollett Davison, Ph.D., *Assistant Professor of European History*  
 Solomon Kullback, Ph.D., *Lecturer in Statistics*  
 Allen Dailey Manvel, A.B., *Lecturer on Public Administration*  
 William George Torpey, Ph.D., *Lecturer on Public Administration*

## COMMITTEES •

## THE DEAN'S COUNCIL ‡

1949

Thelma Hunt

Dorothy Jeanne Morrow

1950

Wood Gray

Donald Stevenson Watson

1951

John Albert Tillema

John Withrow Brewer

## COMMITTEE ON ADMISSION AND ADVANCED STANDING

The Dean of the School, *Chairman*Harold Griffith Sutton, *Secretary*

Ralph Dale Kennedy

Donald Stevenson Watson

Arthur Edward Burns

Frank Mark Weida

## GENERAL INFORMATION

## INTRODUCTORY

The George Washington University School of Jurisprudence and Diplomacy existed from 1898 to 1913, when it was discontinued as a separate school. The courses were given, however, in Columbian College until September 1928, when training in foreign service and governmental theory and administration was reestablished as a separate branch under the School of Government.

It is the purpose of the School to give the student an understanding of the responsibilities under the Constitution of the United States in the conduct of public office—domestic and foreign. This can be accomplished

\* The President of the University and the Dean of the School of Government are members *ex officio* of all committees.

‡ Elected by the Faculty.



not through any single course but through a curriculum which correlates social, economic, political, historical, and psychological studies.

The program embraces both graduate and undergraduate work. Curricula leading to the Bachelor of Arts degree are offered in Foreign Affairs, Accounting, Business Administration, and Statistics. A graduate curriculum in each of these subjects is also offered. In addition to the fields mentioned above, graduate work is available in Government and Economic Policy, Public Administration, Personnel Administration, and Vocational Counseling.

The Foreign Affairs program is broad, covering international political relations, international trade and finance, and regional studies. Its purpose is to equip students, by providing general background and specialized work, for careers in the field of American foreign relations. The diplomatic service of the United States, the several agencies of government with responsibilities in the international field, the international organizations, and American enterprise abroad offer opportunities in this field.

Governmental service requires special training and background in many other subjects, including economic research, statistical investigation, accounting, administrative management, and personnel administration. The academic background for such work is offered in the various curricula of the School and is described below.

#### REGULATIONS

*Students in the School of Government are subject to, and are expected to familiarize themselves with, the regulations concerning ADMISSION, REGISTRATION, FEES AND FINANCES as stated on pages 10-22, and the University regulations stated on pages 34-40.*

#### AMOUNT OF WORK

A full-time student not on probation may take ordinarily not more than seventeen credit hours. A student employed more than twenty-four hours a week, who is not on probation, may take not more than ten credit hours.

A full-time undergraduate student whose quality-point index is 3.50 or higher may take not more than nineteen credit hours. An undergraduate student employed more than twenty-four hours a week, whose quality-point index is 3.50 or higher, may take up to twelve credit hours.

Exceptions to these rules will require the approval of the Dean.

#### ATTENDANCE

The student is held responsible for all the work of the courses in which he is registered, and all absences must be excused by the instructor in charge before provision is made for him to make up the work missed.

## CLASSIFICATION OF STUDENTS

A student who holds an Associate in Arts degree from the Junior College or the equivalent from another accredited institution, and who has registered his choice of one of the prescribed curricula at the Office of the Registrar, is classed as a *junior*. A student who has completed thirty credit hours in the School of Government is classed as a *senior*. A student who has satisfactorily completed the work for the Bachelor's degree, and who has registered his choice of one of the prescribed fields of study at the Office of the Registrar, is classed as a *master in course*.

## INDEPENDENT STUDY PLAN

Under the independent study plan a student of demonstrated capacity, with special interest in the subject matter of a course, may be permitted to undertake independent study under the personal direction of an instructor, in accordance with the rules of the division in which the subject falls. Credit under this plan is limited to the specific course-credits as designated in the list of courses of instruction in this CATALOGUE.

## THE DEGREE OF BACHELOR OF ARTS IN GOVERNMENT

Upon the satisfactory completion of the undergraduate requirements of the School of Government, the degree of Bachelor of Arts in Government, with a designation of the major field of study, is conferred. The major fields are Foreign Affairs, Accounting, Business Administration, and Statistics.

Students who have a special need for integrating courses from several departments or from more than one major field may request approval, by a faculty committee, of a special major program. The same rules and regulations will apply as in the regularly offered majors.

Requirements for the undergraduate major in Economics and Public Administration are stated under the departments of Economics and Political Science, respectively.

## REQUIREMENTS FOR THE DEGREE

## SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 34 and 35.

In order to graduate, a student must have the following: (1) a quality-point index in all of his work of at least 2.00, and (2) a quality-point index of at least 2.50 in his major, normally forty-five to forty-eight credit hours in work of the third and fourth years.

*Probation.*—A student must maintain a quality-point index of at least

2.00, or be placed on probation, where he will remain as long as his quality-point index is below 2.00.

*Suspension.*—A student who has a quality-point index below 1.00 or who is placed on probation for a third term, whether successive or after an interval, will be suspended.

For the purpose of these rules, the summer sessions are considered a term.

A student suspended for poor scholarship may apply for readmission after an interval of a calendar year. He must then submit evidence to the Committee on Admission and Advanced Standing that during his absence from the University he has so conducted himself as to indicate that he will profit by readmission. A student suspended twice for poor scholarship will not be readmitted.

A student with a limited schedule is affected by the foregoing scholarship rules only when he has undertaken fifteen credit hours.

#### CURRICULUM REQUIREMENTS

For recommendation for graduation the School of Government requires, in addition to the appropriate Junior College work (see page 17 and curricula on pages 60-61), a minimum of sixty credit hours during the junior and senior college years, as set forth in one of the following curricula:

Foreign Affairs	Credit Hours
Econ. 181-82...International Economics .....	6
Geog. 122 or 123.Political or Economic Geography.....	3
Hist. 150.....European Diplomatic History Since 1854	
or Pol. Sc. 171.International Politics .....	3
Hist. 181-82...Diplomatic History of the United States.....	6
Pol. Sc. 172...International Organization: the United Nations.....	3
Pol. Sc. 181-82.International Law .....	6
Language .....Advanced Composition and Conversation.....	6
Group Option...(To be selected from one of the following groups).....	18
Electives .....(To be selected with the approval of the adviser).....	9
Total.....	60

All foreign affairs majors must complete the *required* courses listed above. The group option provides specialization in international politics, or international economics, or a geographic region, depending upon the student's interest. Option groups, however, are not rigid. A combination of courses in different options is possible with the consent of the adviser.

#### Group I—International Political Relations

This group option (18 credit hours as noted in list above) is composed of courses in the departments of Political Science, History, and Geography which are important to the study of American diplomatic relations. The selection of courses must be made upon consultation with the adviser.



**Group II—International Economic Relations**

This group option (18 credit hours as noted in list above) is composed of courses offered primarily by the departments of Economics and Business Administration which are important to the study of American economic, financial, and business relationships with foreign countries. The selection of courses must be made upon consultation with the adviser.

**Group III—Area or Regional Studies**

This group option (18 credit hours as noted in list above) may be selected from courses offered in the departments of Economics, History, Political Science, and Geography, dealing with a geographic region such as Europe, Latin America, or the Far East. This selection must be approved by the adviser.

Accounting		Credit Hours
Bus. Adm. 115.....	Business Finance.....	3
Bus. Adm. 145.....	Cost Accounting.....	3
Bus. Adm. 151-52.....	Intermediate Accounting.....	6
Bus. Adm. 153.....	Advanced Accounting.....	3
Bus. Adm. 158.....	Federal Taxation .....	3
Bus. Adm. 165.....	Auditing .....	3
Econ. 121-22.....	Money and Banking.....	6
Pol. Sc. 127, 128, 129.....	Commercial Law.....	9
Curriculum Electives..	(To be selected from courses relating to accounting with the approval of the adviser).....	9
Electives .....	(To be selected with the approval of the adviser)....	15
Total.....		60

Business Administration		Credit Hours
Bus. Adm. 101.....	Business Organization and Combination.....	3
Bus. Adm. 102.....	Business Management.....	3
Bus. Adm. 112.....	Personnel Management in Industry.....	3
Bus. Adm. 115.....	Business Finance.....	3
Bus. Adm. 128.....	Insurance .....	3
Bus. Adm. 171.....	Marketing .....	3
Econ. 121-22.....	Money and Banking .....	6
Pol. Sc. 127, 128.....	Commercial Law.....	6
Curriculum Electives..	(To be selected from courses relating to business ad- ministration with the approval of the adviser)....	15
Electives .....	(To be selected with the approval of the adviser)....	15
Total.....		60

**Foreign Commerce.**—Business administration majors who wish to specialize in foreign commerce may request a modification of the above requirements. The modified major excludes some of the above required courses and adds others, such as a third year of foreign language, foreign markets, exporting and importing, economic geography, and other courses relating to overseas trade. Each program must be approved by the adviser.



Statistics		Credit Hours
Stat. 115-16....Principles of Statistical Methods.....		6
Stat. 117.....Analysis of Variance.....		3
Stat. 118.....Correlation and the Chi-Square Test.....		3
Stat. 155-56....Mathematical Probability.....		6
Stat. 157-58....Mathematical Statistics.....		6
Group Option...(To be selected from one of the following groups).....		24
Electives .....(To be selected with the approval of the adviser).....		12
Total.....		60

#### Group I—Economic and Business

Courses in this group are to be selected by students specializing in economic and business statistics upon consultation with the adviser. These courses are offered by the departments of Economics, Business Administration, and Statistics.

#### Group II—Education and Psychology

Courses in this group are to be selected by students specializing in educational and psychological statistics upon consultation with the adviser. These courses are offered by the departments of Psychology and Statistics.

#### Group III—Mathematics and the Biological and Physical Sciences

Courses in this group are to be selected by students specializing in mathematical statistics and statistical applications in the biological and physical science fields. Selection must be made upon consultation with the adviser.

### EXAMINATIONS FOR WAIVING CURRICULUM REQUIREMENTS

A student desiring to omit a required course may take such examination as the department prescribes, and, on passing satisfactorily, he may be relieved of the curriculum requirement in that subject and may qualify for registration in an advanced course. Passing of this examination does not entitle the student to any hours of credit toward the degree. A student desiring to take such examinations should make the request of the Dean and pay the required fee.

The candidate for the Master's degree who is deficient in undergraduate preparation may take a comprehensive examination on his undergraduate major field. Passing of this examination entitles the student to admission without taking specific courses to make up his deficiencies.

In courses taken to satisfy undergraduate deficiencies, the student must maintain at least a 3.00 average to be eligible for admission to graduate study.

### THE DEGREE OF MASTER OF ARTS IN GOVERNMENT

Upon the satisfactory completion of the graduate requirements of the School of Government, the degree of Master of Arts in Government, with a designation of the major field of study, is conferred. The major fields are Foreign Affairs, Accounting, Business Administration, Business

and Economic Statistics, Government and Economic Policy, Public Administration, Personnel Administration, and Vocational Counseling.

Students who have a special need for integrating courses from two or more of the major fields of concentration for the Master's degree may request approval, by a faculty committee, of a special major program. All rules and regulations for the Master's degree will apply to such special programs.

#### ADMISSION TO CANDIDACY

A student is formally recognized as a candidate for the Master's degree only when his application for candidacy has been approved by the Dean. Application is made on a form obtainable at the Office of the Registrar.

Before being admitted to candidacy for the major in Foreign Affairs or in Government and Economic Policy the student must show a reading knowledge (certified by the appropriate language department) of at least one modern foreign language, to be approved by the Dean. Examinations in modern foreign languages will be given on the dates specified in the University calendar.

#### REQUIREMENTS FOR THE DEGREE

A minimum of thirty credit hours of work, as outlined in the curricula on pages 139-41, must be completed successfully. Variations from these curricula require the permission of the Dean.

No part of the minimum requirement may be taken in any other institution.

A second-group course (numbered 101-200), taken either in the undergraduate or graduate years, may be counted toward the Master's degree only when registration for advanced credit has been approved at the beginning of the course by the Dean and by the officer of instruction, and provided that the student has done such extra work in the course as may be prescribed by the instructor.

Work completed more than three years prior to registration for the Master's degree will be counted only if the candidate successfully passes an examination on the subject matter of the work offered for credit.

In addition to the course examinations, the candidate must pass a comprehensive written examination in his major field. An oral examination on his thesis may also be required.

No work counted toward a Bachelor's degree may be counted toward a Master's degree.

A student who expects to continue his studies for the degree of Doctor of Philosophy after receiving the Master's degree will be assisted to plan his program so that he can qualify for admission to candidacy for the Doctorate.

## RESIDENCE

No credit is granted for work done in absentia, i.e., without formal instruction, except for the thesis, which may be completed in absentia with the permission of the department concerned.

## SCHOLARSHIP

A student whose scholarship is unsatisfactory may be suspended by the Dean. Regarding the system of grading, see pages 34 and 35.

## CURRICULUM REQUIREMENTS

A normal program includes a minimum of twenty-four credit hours of course work and the thesis (six credit hours), to be selected from the courses listed under the chosen major field, and such other courses as may be necessary. All programs must be approved by the Faculty adviser and the Dean.

## Foreign Affairs

**Prerequisite:** an undergraduate major in foreign affairs, economics, or political science, depending upon the field of specialization. Any course deficiency in such undergraduate majors must be made up.

The Master of Arts program in Foreign Affairs is offered in three fields of specialization: International Economics, International Politics, and Regional Studies.

**International Economics.**—Graduate courses in economics (numbered 200 and over) in the field of international trade, the balance of payments, international financial policies, and international economic policies form the principal part of this specialization. Graduate courses in economic theory are recommended. Other courses may be included with the consent of the adviser.

**International Political Relations.**—Graduate courses in political science and history (numbered 200 and over) in international law, international politics, international organization, diplomatic history, and American foreign policy, comprise the principal requirements for this specialization. Related courses may be added with the consent of the adviser.

**Regional Studies.**—Graduate courses in economics, political science, and history (numbered 200 and over) dealing with a geographic region, such as Latin America, Europe, or the Far East, comprise the principal requirements. Other courses of broader scope in economics, history, and political science are recommended as part of the program. The adviser in all cases must approve such selections.

The listing of graduate courses for these programs is given in the departmental offerings for Economics, History, Political Science, and Geography.

## Accounting

**Prerequisite:** an undergraduate major in accounting or the equivalent. The Master of Arts program in Accounting requires the following courses:

Bus. Adm. 215.....	Corporation Financial Problems.....	3
Bus. Adm. 216.....	Seminar in Business Finance.....	3
Bus. Adm. 241.....	Accounting Theory.....	3
Bus. Adm. 241-32.....	Seminar in Accounting.....	6



The remaining nine hours are to be selected from graduate courses offered by the Department of Business Administration; however, students interested in governmental accounting should select course work in governmental budgeting offered by the Department of Political Science. All programs must be approved by the adviser.

#### Business Administration

Prerequisite: an undergraduate major in business administration or the equivalent.

The Master of Arts program in Business Administration requires the following courses:

Bus. Adm. 215.....	Corporation Financial Problems.....	3
Bus. Adm. 281-82....	Business Policy.....	6
Bus. Adm. 291-92....	Seminar in Business Administration.....	6

The remaining nine hours of course work are to be selected from courses in or related to business administration with the approval of the adviser.

#### Business and Economic Statistics

Prerequisite: an undergraduate major in statistics or the equivalent, coupled with adequate training in economics and business administration.

The Master of Arts program in Business and Economic Statistics requires at least twelve credit hours to be taken from the following:

Statistics 201.....	Design of Experiments.....	3
Statistics 202.....	Theory of Estimation and Testing Hypotheses.....	3
Statistics 203-4.....	The Theory of Econometrics.....	6
Statistics 205-6.....	Advanced Business and Economic Statistics..	6

The remaining twelve hours are to be selected from graduate work offered by the departments of Business Administration, Economics, and Statistics with the approval of the adviser.

#### Government and Economic Policy

Prerequisite: an undergraduate major in economics or the equivalent.

Graduate courses in economics, especially those in the theory of economic policy, the level of income and employment, national income, economic stabilization, and fiscal policy, comprise the principal part of this program. Graduate courses in economic theory and statistics are recommended to complete the program. These courses and others that may be appropriate, are to be selected with the consent of the adviser.

#### Public Administration

Prerequisite: an undergraduate major in political science or an undergraduate background in the social sciences appropriate to specialization in this field.

The Master of Arts in Public Administration requires a program comprising graduate courses in governmental organization and functions, budgetary administration and controls, administrative principles and problems, and personnel management. Other related courses in political science and economics are added upon consultation with the adviser.



### Personnel Administration

Prerequisite: an undergraduate major in the social sciences, business administration, or education, coupled with courses in personnel psychology, social psychology, or abnormal psychology.

The program requires six graduate credits in personnel administration offered in the Department of Political Science; six graduate credits in psychology relating to personnel work; six graduate credits in labor relations and business administration; the remaining six credits are elective. Each program must be approved by the adviser.

### Vocational Counseling

Prerequisite: an undergraduate major in the social sciences, business administration, or education, including work in social and abnormal psychology, business management, and public administration.

The Master of Arts program in Vocational Counseling requires the following courses:

Psychology 227.....	Seminar: Educational and Vocational Guidance	3
Psychology 228.....	Seminar: Techniques of Counseling.....	3
Psychology 229.....	Occupational and Educational Information...	3
Psychology 231.....	Test Construction .....	3
Statistics (to be selected) .....		3

The remaining nine hours are to be selected from courses related to counseling. All programs must be approved by the adviser.

### THE THESIS

The thesis must be registered for not later than the beginning of the final year, unless the professor in charge of the thesis permits registration at the beginning of the final term. The choice of the thesis subject must be approved by the professor in charge and recorded in the Office of the Registrar by the date announced in the University calendar. The typewritten thesis in its final form must have the approval of the professor in charge and must be presented to the Dean by the student not later than the date announced in the University calendar. Requirements in regard to the form of the thesis are stated on page 38, and additional information will be supplied by the Dean.

Payment of tuition for the thesis entitles the candidate, during the academic year of registration, to the advice and direction of the member of the Faculty under whom the thesis is to be written. In case a thesis is unfinished, an additional successive academic year is granted without further tuition payment. If the preparation of the thesis extends beyond the two-year period, it must be registered for again, and tuition paid on the same basis as for a repeated course.

## 112

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## THE DIVISION OF SPECIAL STUDENTS

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
Warren Reed West, Ph.D., *Dean of the Division of Special Students*

### THE DEAN'S COUNCIL •

Thelma Hunt

Carl Hugo Walther

Fred Salisbury Tupper

### GENERAL INFORMATION

#### INTRODUCTORY

The Division of Special Students was organized in 1944. To this Division may be admitted students who are in the process of qualifying for degree candidacy. Students in this Division are designated "special students".

#### REGULATIONS

*Students in the Division of Special Students are subject to, and are expected to familiarize themselves with, the regulations concerning ADMISSION, REGISTRATION, FEES AND FINANCES stated on pages 10-22; and the University regulations stated on pages 34-40.*

#### SCHOLARSHIP

A student in this Division may be required to discontinue registration at any time his quality-point index falls below 2.00.

The system of grading and computing scholarship is described in detail on pages 34 and 35.

#### AMOUNT OF WORK

In each individual case, the schedule will be reduced when it is deemed advisable.

#### TRANSFER TO REGULAR STATUS

A "special student" may be transferred to another college or school of the University only upon complying with the regulations of the specific college or school to which he wishes to transfer. The student should familiarize himself with the regulations printed in the University CATALOGUE concerning admission, residence, amount and quality of work. Specifically, he should note that in some cases not more than thirty (30) hours of credit may be transferred from this Division; that the residence requirement of the school to which he is transferring must be met; and that a general quality-point index of 2.00 must be maintained, with an index of 2.50 in the major.

\* The President of the University and the Dean of the Division of Special Students are members ex officio of the council.



## THE SUMMER SESSIONS

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*

\*Mitchell Dreese, Ph.D., *Dean of the Summer Sessions*

Charles William Cole, Ph.D., *Assistant Dean of the Summer Sessions*

The George Washington University is continuing the accelerated program started in 1942. During the summer the University offers a fifteen-week term equivalent to the fall or winter term of the academic year, and two eight-week sessions which together constitute the equivalent of a full term. In addition, the School of Education offers a special six-week session for teachers, with a pre-session of three weeks and a post-session of three weeks. Students may enter the Summer Sessions at the beginning of any of the sessions.

During the summer of 1948, courses are offered in the Junior College, Columbian College (the senior college), the Law School, the School of Engineering, the School of Education, and the School of Government.

For a complete statement concerning summer-term work, see the Summer Sessions catalogue.

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\* On leave of absence fall term 1948-49.



COURSES OF INSTRUCTION



## COURSES OF INSTRUCTION

On the following pages of this CATALOGUE, under the alphabetically arranged names of the departments of instruction, are listed the courses of instruction offered by the University in the summer of 1948 and in the academic year 1948-49. The courses as here listed are subject to some slight change. The University reserves the right to withdraw any course announced.

### HOURS OF INSTRUCTION

Courses of instruction are scheduled in the morning, afternoon, and evening. Evening classes are identical with the daytime sections of the corresponding courses, are taught by the same instructors, and carry the same amount of credit. By taking the evening and summer classes and extending the time of study beyond the customary four years, a student who is able to give only part of his time to college work may complete a regular curriculum and obtain a degree.

### EXPLANATION OF COURSE NUMBERS

*An odd number preceding the name of the course indicates that the course is offered in the fall term; an even number, that it is offered in the winter term; and a double number (157-58), that it begins in the fall term and continues in the winter term. The letter "x" following an odd course number (e.g., 21x) indicates that the course, normally offered in the fall term, is given in the winter term. The letter "x" following an even course number (e.g., 22x) indicates that the course, normally offered in the winter term, is given in the fall term.*

In the departments of the School of Medicine, first-year courses are numbered from 101 to 200; second-year courses, from 201 to 300; third-year courses, from 301 to 400; and fourth-year courses, from 401 to 500.

In the Law School, first-year courses are numbered from 101 to 200; second-year courses, from 201 to 300; third-year courses, from 301 to 400; and graduate courses, from 401 to 500.

In all other schools and colleges the following system of numbering is used:

*First-group courses.*—Courses numbered from 1 to 100 are planned for students in the freshman and sophomore years. With the approval of the adviser and the dean, they may also be taken by juniors and seniors. In certain instances, they may be taken by graduate students to make up undergraduate deficiencies or as prerequisite to advanced courses, but they may not be credited toward a higher degree.

*Second-group courses.*—Courses numbered from 101 to 200, are planned

for students in the junior and senior years. They may be credited toward higher degrees only when registration for graduate credit has been approved at the beginning of the course by the dean responsible for the graduate work and by the officer of instruction, and when the completion of additional work has been certified by the officer of instruction.

*Third-group courses.*—Courses numbered from 201 to 300 are planned primarily for graduate students. They are open, with the approval of the officer of instruction, to qualified seniors; they are not open to Junior College students or other undergraduates.

#### INDICATION OF THE AMOUNT OF CREDIT

The number of credit hours given for the satisfactory completion of a course is, in most cases, indicated in parentheses after the name of the course. Thus, a year course giving three hours of credit each term is marked (3-3), and a term course giving three hours of credit is marked (3). A credit hour usually consists of the completion of one fifty-minute period of class work or of one laboratory period a week for one term.

A dagger (†) preceding the number of a year course indicates that the course *may not be entered in the second term and that credit will not be given until the work of both terms has been completed.*



## ANATOMY

Warren Andrew, Ph.D., M.D., *Professor of Anatomy, Executive Officer*  
 Webb Edward Haymaker, M.D., M.S., *Professorial Lecturer in Anatomy*  
 Paul Calabrisi, A.M., *Associate Professor of Anatomy*  
 Frederick Burgess Hartsock, M.D., *Instructor in Anatomy*  
 Thomas Clarkson Worth, M.D., *Clinical Instructor in Anatomy*  
 Merton Waite, M.D., *Teaching Fellow in Anatomy*

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|---------|--|-----------|
| 101-2   | <b><i>Gross Anatomy</i></b><br>Regional dissection of the human body supplemented with lectures and quiz sections. Study of X-ray anatomy to emphasize the functional aspects of the position, shape, and relation of the viscera and skeletal components. Eighteen hours a week, fall term; nine hours a week, winter term. | The Staff |
| 103     | <b><i>Human Embryology</i></b><br>The origin and development of the human body. Special emphasis on the value of embryology in interpreting anatomical anomalies and variations as seen in gross dissection, surgery, obstetrics, and pathology. Three hours a week.   | The Staff |
| 105     | <b><i>Neuro-anatomy</i></b><br>The macroscopic and microscopic study of the central nervous system and the special sense organs. Emphasis on such dynamic aspects as development, pathways, lesions, etc. Six hours a week.  | The Staff |
| 106     | <b><i>Microscopic Anatomy</i></b><br>Study of the detailed minute structure of cells, tissues, and organs of the human body with emphasis on the relation of structure to function. Recognition and interpretation of histological sections tested by practical examinations. Six hours a week.                              | The Staff |
| 201-2   | <b><i>Seminar</i></b><br>Reports and discussions of special topics by the staff and graduate students. Regular medical students are encouraged to attend. One hour a week.   | The Staff |
| 295-96  | <b><i>Research</i></b><br>Hours and credits to be arranged.  | The Staff |
| 299-300 | <b><i>Thesis (3-3)</i></b>   | The Staff |

## ANESTHESIOLOGY

Lloyd Harvey Mousel, M.S., M.D., *Professor of Anesthesiology, Executive Officer*

Donald Harrison Stubbs, A.M., M.D., *Clinical Professor of Anesthesiology*

Charles Seymour Coakley, M.D., *Assistant Professor of Anesthesiology*

Seymour Alpert, A.B., M.D., *Instructor in Anesthesiology*

### 260 *Anesthesiology*

The Staff

Review of basic sciences and correlation between basic sciences and clinical work. One hour a week.

### 333-34 *Advanced Anesthesiology*

The Staff

Fourth year students are rotated through the work of the department for a period of two weeks for each student and assigned to work in operating rooms, conferences, and seminars.

### 480 *Research*

The Staff

Hours to be arranged.

## ART

Norris Ingersoll Crandall, M.Arch., *Professor of Art, Executive Officer*  
Donald Chenoweth Kline, B.Arch., *Associate Professor of Art*

### STAFF IN THE CORCORAN SCHOOL OF ART

DRAWING AND PAINTING: Richard Lahey, *Principal*, Eugen Weisz,  
Jessalee Sickman, Kenneth Stubbs, Omar Carrington

SCULPTURE AND CARVING: Heinz Warneke

COMMERCIAL ART: Charles Isbell, William Sholar, Henry Liebschutz

*The major in art appreciation (Departmental).*—Prerequisite: Art 11-12 and 71-72. Required: Art 101-2, 121-22, 141-42, 151-52, and 161-62.

*The major in drawing and painting (Departmental).*—Prerequisite: Art 11-12. Required: Art 121-22, and at least thirty-six credit hours of drawing and painting. The classes in drawing and painting are held at the Corcoran School of Art.

### FIRST GROUP

11-12 *Art Appreciation (3-3)* Crandall

An introduction to the appreciation of the fine arts and to the interpretation of the paintings of the old and modern masters. 1948-49 and alternate years, morning and evening sections. 1949-50 and alternate years, evening.

67-68 *Life and Portrait—Drawing and Painting (6-6)* Archer, Stubbs

Morning, afternoon, and evening sections.

71-72 *Introduction to the Arts in America (3-3)* Kline

Painting, sculpture, architecture, furniture, music, and folk arts. Morning, afternoon, and evening sections.

73-74 *Still Life and Portrait—Drawing and Painting; Antique Drawing (6-6)* Sickman, Carrington

Morning, afternoon, and evening sections.

### SECOND GROUP

101-2 *The Design of the Home (3-3)* Crandall

The history and development of the home, and home furnishings in relation to home design. 1948-49 and alternate years, evening. 1949-50 and alternate years, morning.

121-22 *World History of Art (3-3)* Kline

The fine arts from ancient times to the present. 1948-49 and alternate years, morning. 1949-50 and alternate years, afternoon.

- 141-42 *Interior Decoration* (3-3) Kline  
The selection and use of furniture, wall and floor coverings, draperies, and lighting. 1948-49 and alternate years, afternoon. 1949-50 and alternate years, evening.
- 143-44 *Folk Arts of America* (3-3) Kline  
Woodcarving, painting, ceramics, glass, furniture, and music. (Not offered in 1948-49.)
- 151-52 *Modern Art* (3-3) Crandall  
The interpretation of the fine arts of the nineteenth and twentieth centuries of Europe and the Americas. 1948-49 and alternate years, evening. 1949-50 and alternate years, morning.
- 161-62 *History of Art Criticism* (3-3) Crandall  
A survey of art criticism from ancient Greece to the present. Admission by permission of the instructor. Evening.
- 165-66 *Life and Portrait—Drawing and Painting* (6-6) Lahey, Weisz  
Morning, afternoon, and evening sections.
- 175-76 *Composition* (6-6) Archer  
Design and pictorial organization; drawing and painting. Afternoon.
- 179-80 *Sculpture* (6-6) Warneke  
Portrait-life modeling and composition in clay, plaster and wood carving. Afternoon and evening sections.
- 183-84 *Design and Commercial Art* (6-6) Isbell, Sholar, Liebschutz  
Prerequisite: one year (6 hours daily) in a professional art school or the equivalent, or by permission of the instructor. Morning, afternoon, and evening sections.
- 185-86 *Advanced Commercial Art*  
Credits to be arranged. (Not offered in 1948-49.)



## BACTERIOLOGY, HYGIENE, AND PREVENTIVE MEDICINE

Leland Wilbur Parr, Ph.D., *Professor of Bacteriology, Executive Officer*

Ralph Gregory Beachley, M.D., Dr.P.H., *Adjunct Professor of Public Health Practice*

Angus MacIvor Griffin, Ph.D., *Associate Professor of Bacteriology*

Mary Louise Robbins, Ph.D., *Assistant Professor of Bacteriology*

Lewis Walke McIlhany, M.S., M.D., *Clinical Instructor in Public Health Practice*

William Gray McCarten, B.S., *Associate in Bacteriology*

### SEMINAR LECTURERS

Charles Armstrong, B.S., M.D., Sc.D., *Professorial Lecturer in Preventive Medicine*

Rolla Eugene Dyer, A.B., M.D., LL.D., *Professorial Lecturer in Preventive Medicine*

Royd Ray Sayers, A.M., M.D., *Professorial Lecturer on Industrial Hygiene*

Sara Elizabeth Branham, Ph.D., M.D., Sc.D., *Professorial Lecturer in Preventive Medicine*

Chester Wilson Emmons, Ph.D., *Professorial Lecturer on Medical Mycology*

Willard Hull Wright, D.V.M., Ph.D., *Professorial Lecturer on Medical Zoology*

John Roderick Heller, Jr., B.S., M.D., *Professorial Lecturer on Venereal Disease Control*

Carl John Lauter, M.S., *Professorial Lecturer on Municipal Sanitation*

Robert Carter Cook, *Professorial Lecturer on Medical Genetics*

Robert Hanna Felix, M.D., M.P.H., *Professorial Lecturer on Mental Hygiene*

William Wesley Peter, Ph.M., M.D., Dr. P.H., *Professorial Lecturer on Public Health Administration*

### 112 General Bacteriology (4)

Griffin, Robbins

A study of the fundamentals of bacteriology, including industrial and hygienic applications. Several groups of bacteria, yeasts, and molds are studied in the laboratory. Material fee, \$7.50. Tues., Thurs., and Sat., 9:10 to 12:00 A.M.

- 209 *Medical Microbiology (1-13)* Parr and Staff  
Bacteria, rickettsia, viruses, yeasts, molds, protozoa, and metazoa which relate to the health and diseases of man—cultural study of most important forms; methods of diagnosis by microscopic, cultural, immunologic, and animal reaction method; theory and methods of immunology; vaccines; serums; antibiotics; epidemiology and fundamentals of preventive medicine and public health practice. Open to suitably prepared graduate students; may be elected as a whole or in part, with credit allocated as follows: (a) *Bacteriology*, including rickettsia and viruses (7); (b) *Parasitology*, including medical mycology (3); (c) *Immunology* (1); and (d) *Epidemiology and Fundamentals of Preventive Medicine and Public Health* (2)—required of Pharmacy majors—Tues., 8:00 A.M. and Thurs., 9:00 A.M.
- 210-20 *Advanced Microbiology* Griffin and Staff  
Special study of advanced methods and current problems in microbiology for suitably qualified students specializing in microbiology. Prerequisite: Bacteriology 112 or 209, Chemistry 151-52 or the equivalent. Time and credits to be arranged.
- 295-96 *Research in Bacteriology* The Staff  
Time and credits to be arranged.
- 299-300 *Thesis (3-3)* The Staff
- 305-6 *Staff Seminar (1-1)* Parr and Staff  
Bi-weekly throughout the year.
- 401-2 *Public Health Practice (1-1)* Beachley  
Study of public health practice at national, state, city, and county levels. Public and private agencies. Sat., 10:00 A.M.
- 404 *Industrial Hygiene (1)* Sayers  
For senior medical students and qualified graduate students. Lecture course dealing with the problems of health maintenance and disease prevention and cure as affected by industry.

## BIOCHEMISTRY

Joseph Hiram Roe, Ph.D., *Professor of Biochemistry, Executive Officer*  
 \*Arnold Kent Balls, Ph.D., *Adjunct Professor of Enzymology*  
 William Henry Sebrell, Jr., M.D., *Professorial Lecturer on Nutrition*  
 George Washington Irving, Jr., Ph.D., *Professorial Lecturer on Proteins*  
 Carleton Raymond Treadwell, Ph.D., *Associate Professor of Biochemistry*  
 Mary Barbara Mills, M.S., *Instructor in Biochemistry*  
 Norman Philip Goldstein, A.M., M.D., *Instructor in Biochemistry*

- 113-14 *Biochemistry* Roe and Staff  
 Physiological and clinical chemistry for the first-year medical student. Two lectures and two three-hour laboratory periods a week.
- 221-22 *Biochemistry (4-4)* Treadwell  
 A lecture and laboratory course for nonmedical students. Prerequisite: Chemistry 152. Material fee, \$12 a term. Tues. and Thurs., 10:00 to 12:00 A.M. and 1:00 to 2:00 P.M.
- 224 *Biochemistry of the Enzymes* Balls  
 Lecture course dealing with the biochemistry of the enzymes and enzyme reactions. Prerequisite: Biochemistry 113 or 221. (Not offered in 1948-49.)
- 225 *Biochemical Preparations* The Staff  
 Material fee, \$10. Time and credits to be arranged.
- 226 *Biochemical Laboratory Methods* The Staff  
 Material fee, \$10. Time and credits to be arranged.
- 227-28 *Biochemistry Seminar (1-1)* Roe  
 The current literature in the field of biochemistry, mainly for graduate students, but open to a limited number of specially qualified medical students. Fri., 4:45 P.M.
- 231 *Proteins and Amino Acids (1)* Irving  
 A lecture course. Prerequisite: Biochemistry 114 or 222. Mon., 4:45 P.M.
- 295-96 *Research in Biochemistry* Roe, Treadwell  
 Time and credits to be arranged
- 299-300 *Thesis (3-3)* Roe
- 404 *Applied Nutrition (1)* Sebrell  
 For senior medical students and graduate students. Lecture course upon dietary requirements, deficiency diseases, and therapeutic diets. Prerequisite: Biochemistry 114 or 222. Tues., 4:00 P.M.

\* On leave of absence 1948-49.

## BIOLOGY\*

Paul William Bowman, Ph.D., *Professor of Biology, Executive Officer*

Sam Clark Munson, M.S., *Assistant Professor of Biology*

Robert Carter Cook, *Lecturer on Genetics*

Paul Louis Illg, A.M., *Lecturer in Biology*

Mary Frances Schott, Ph.D., *Associate in Biology*

*The major in Biology (Field-of-Study).*—Students will be required to demonstrate in the Major Examination a reasonable knowledge and understanding of the classification and life histories of plants and animals, ecology, geology, evolution, heredity, the physical and cultural development of man, public health problems, and the history of biology. The course offerings will be correlated and supplemented by supervised study in the proseminar. For details, see the pamphlet, which is available in the Office of the Dean of Columbian College, or consult the Executive Officer of the Department.

### FIRST GROUP

#### 1-2 *Survey in Biology* (3-3)

Bowman, Munson, Illg

Systematic study of the plant and animal kingdoms, with emphasis upon the interdependences of living things and their relations with their environments. Introduction to evolution, heredity, public health, and conservation. Material fee, \$4.50 a term. Lecture (1 hour)—afternoon and evening sections; laboratory (2 hours)—morning, afternoon, and evening sections; field trip to nearby country side and to museums and other places of biological interest (3 hours)—morning and afternoon sections. (Also offered 1948 summer term.)

### SECOND GROUP

#### 115-16 *Cytology* (3-3)

Bowman

Study of plant and animal cells and their components, including the chromosomes and their role in heredity, with training in the preparation of materials for study. Prerequisite: one year of college work in biology, botany, or zoology. Material fee, \$6 a term. Lecture (1 hour); laboratory (4 hours)—evening. (Also offered 1948 summer term—Biology 115 (3).)

#### 125 *Genetics* (3)

Cook

A one-term lecture course in which the general principles are illustrated with specific examples of inheritance in plants and animals, including man. Prerequisite: one year of college work in biology, botany, or zoology.

Summer term 1948.

\* See also departments of Botany and Zoology, pages 162-63, 303-5.



127-28 *Genetics* (3-3)

Cook

A lecture course in which the general principles are illustrated with specific examples of inheritance in plants and animals, including man. Prerequisite: one year of college work in biology, botany, or zoology. Morning.

139 *Cell Physiology* (3)

Yocum

The fundamental physiology of protoplasm. Prerequisite: Chemistry 12 or one year of college biology, botany, or zoology. Offered 1948-49 and alternate years. Morning.

199-200 *Proseminar in Biology* (3-3)

Bowman

Individually planned and directed study by means of which majors in biology may correlate and supplement the subject matter presented in various regular courses. Time to be arranged.

## THIRD GROUP

201-2 *Seminar: Cytology* (3-3)

Bowman

Time to be arranged.

211-12 *Research in Cytology*

Bowman

Time and credits to be arranged. (Also offered 1948 summer term.)

299-300 *Thesis* (3-3)

Bowman

## BOTANY \*

Lawson Edwin Yocum, Ph.D., *Professor of Botany, Executive Officer*  
 William Webster Diehl, Ph.D., *Adjunct Professor of Mycology*  
 Lyman Bradford Smith, Ph.D., *Professorial Lecturer on Taxonomy*  
 June Cooper Reynolds, M.S., *Associate in Botany*  
 Caroline Landor Adams, Ph.D., *Associate in Botany*

*Minimum requirements for the major in Botany (Departmental).—Twenty-four credit hours of botany beyond the introductory courses, with collaterals as recommended in conference.*

### FIRST GROUP

- 1 *Structure and Functions of the Flowering Plant*†§ (3) Yocum  
 The typical plant as a working mechanism, with the emphasis on the general biological significance of plant physiology. Material fee, \$4.50. Lecture (2 hours); laboratory (2 hours)—morning, afternoon, and evening sections. (Also offered 1948 summer term.)
- 2 *Survey of the Plant Kingdom*§ (3) Yocum  
 Study of the different kinds of plants, with emphasis on the evolution of the plant kingdom; practice in identifying flowering plants. Material fee, \$4.50. Lecture (2 hours); laboratory (2 hours)—morning, afternoon, and evening sections. (Also offered 1948 summer term.)
- 5 *Field Botany*§ (6)  
 Field trips to neighboring localities of botanical interest, with classroom study. (Not offered in 1948-49.)

### SECOND GROUP §

- 109 *Plant Morphology* (3) Adams  
 Survey of structure of root, stem, leaf, and flower of seed plants; followed by the application to several of the economically important families. Prerequisite: Botany 1 and 2 or Biology 1-2. Lecture (2 hours); laboratory (2 hours). 1948-49 and alternate years, morning.
- 116 *Plant Growth* (3) Yocum  
 The functions of plants with special emphasis on the practical problems of growing and of caring for plants. Prerequisite: Botany 1 and 2 or Biology 1-2. Lecture (2 hours); laboratory (2 hours). 1948-49 and alternate years, morning.

\* See also the departments of Biology and Zoology, pages 160-61, 303-5.

† Before completing registration for Botany 1, each student must obtain from the representative of the Department an assignment to a laboratory section.

§ Botany 1 and 2 are prerequisite to all other courses in Botany.

- 125-26 *Plant Taxonomy* (3-3) Smith  
A study of the characteristics, phylogeny, and economics of selected families of the flowering plants. Field collection and identification. Prerequisite: Botany 1 and 2 or Biology 1-2. Material fee, \$4.50. Lecture (1 hour); laboratory and field (4 hours). 1949-50 and alternate years.
- 131-32 *Mycology* (3-3) Diehl  
Lecture (1 hour); laboratory (4 hours). 1948-49 and alternate years, evening.
- 133-34 *Plant Pathology* (3-3) Diehl  
Material fee, \$6 a term. 1949-50 and alternate years, evening.
- 135-36 *Plant Physiology* (3-3) Yocum  
Fall term: mineral and water relations of plants; winter term: organic syntheses and growth. Prerequisite: Chemistry 11-12. Material fee, \$6 a term. 1949-50 and alternate years, evening.
- 141-42 *Plant Ecology* (3-3) \_\_\_\_\_  
Lecture (2 hours); laboratory (2 hours). 1948-49 and alternate years, evening.
- 143 *Plant Distribution* (3) \_\_\_\_\_  
Plant distribution, especially in the United States and Canada; biological relationships of eastern America with eastern Asia and of lands in the Southern Hemisphere, and their bearing on biological and geological history. 1949-50 and alternate years, evening.
- 144 *Vegetation of the United States* (3) \_\_\_\_\_  
Seminar on the areas and characteristics of the principal types of vegetation in the United States. 1949-50 and alternate years, evening.

## THIRD GROUP

- 221-22 *Seminar: Taxonomy* (3-3) Smith  
(Not offered in 1948-49.)
- 235-36 *Seminar: Physiology* (3-3) Yocum  
1948-49 and alternate years. Time to be arranged.
- 241-42 *Seminar: Ecology* (3-3) \_\_\_\_\_  
(Not offered in 1948-49.)
- 295-96 *Research* The Staff  
Time and credits to be arranged. (Also offered 1948 summer term.)
- 299-300 *Thesis* (3-3) The Staff

## BUSINESS ADMINISTRATION

Richard Norman Owens, Ph.D., C.P.A., *Professor of Accounting and Business Administration*

Harold Griffith Sutton, M.S., *Professor of Finance*

Ralph Dale Kennedy, Ph.D., *Professor of Accounting and Business Administration, Executive Officer*

\_\_\_\_\_, *Professor of Business Administration*

Orton Wells Boyd, A.M., C.P.A., *Professorial Lecturer on Accounting*

Arlin Rex Johnson, Ph.D., *Professorial Lecturer on Marketing*

James Carlton Dockeray, Ph.D., *Professorial Lecturer in Business Administration*

Montell Ernest Ogden, Ph.D., *Professorial Lecturer in Business Administration*

Lionel Wilmot Thatcher, Ph.D., *Professorial Lecturer in Business Administration*

Jack Richard Miller, A.M., LL.B., *Professorial Lecturer on Accounting*  
\_\_\_\_\_, *Assistant Professor of Accounting*

Edwin J. B. Lewis, M.B.A., *Lecturer on Accounting*

Frank Robert Byrne, M.B.A., LL.M., C.P.A., *Lecturer on Accounting*

James Leonard Buckler, A.B., *Lecturer on Accounting*

Ira Steele, B.B.A., *Lecturer on Accounting*

\_\_\_\_\_, *Instructor in Accounting*

*Minimum requirements for the major.—See pages 142-43, 144.*

### FIRST GROUP

#### 51-52 *Introductory Accounting* (3-3) Kennedy and Staff

Rules of debit and credit, underlying principles of accounting records, simple partnership and corporation problems, and the preparation of financial statements. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)

Business Administration 51x—same as Business Administration 51, but offered winter term. Morning and evening sections.

Business Administration 52x—same as Business Administration 52, but offered fall term. Prerequisite: Business Administration 51, or the approval of the instructor. Morning and evening sections.



## SECOND GROUP

- 101 Business Organization and Combination (3)** Owens  
Simple and interrelated forms of business enterprise and their control by government. Morning. (Also offered 1948 summer term.)  
Business Administration 101x—same as Business Administration 101, but offered winter term. Evening.
- 102 Business Management (3)** Owens  
Organization and management of a business with particular reference to a manufacturing concern. Morning. (Also offered 1948 summer term.)  
Business Administration 102x—same as Business Administration 102, but offered fall term. Evening.
- 112 Personnel Management in Industry (3)** Owens  
Survey of labor policies and methods of business enterprises. Evening.  
Business Administration 112x—same as Business Administration 112, but offered fall term. Afternoon.
- 115 Business Finance (3)** \_\_\_\_\_, Steele  
Basic principles involved in the financing of business enterprises. Prerequisite: Business Administration 51-52; Economics 1-2. Morning and evening sections. (Also offered 1948 summer term.)  
Business Administration 115x—same as Business Administration 115, but offered winter term. Morning and evening sections.
- 116x Commercial Credit (3)** \_\_\_\_\_  
Types and sources of credit information; credit relationships from the standpoint of (1) the commercial bank and (2) the commercial business enterprise. Prerequisite: Business Administration 51-52. Evening.
- 118 Investments (3)** \_\_\_\_\_  
Analysis of factors of investment credit with application to different types of investments; proper selection of investments for various classes of investors; regulation. Prerequisite: Business Administration 51-52. Evening. (Also offered 1948 summer term.)  
Business Administration 118x—same as Business Administration 118, but offered fall term. Morning.
- 119 Real Estate (3)** Dockeray  
Fundamentals of real estate practice; leasing and property management; valuation, financing, and taxation. Evening.
- 128 Insurance (3)** \_\_\_\_\_  
A general course in underlying principles of property, life, marine, and casualty insurance, and the function of insurance in the economic life of a business or individual. Prerequisite: Economics 1-2. Morning. (Also offered 1948 summer term.)  
Business Administration 128x—same as Business Administration 128, but offered fall term. Evening.

- 131x Governmental Budgeting (3)** Buckler  
Policies, practices, and procedures relating to the formulation and execution of the federal budget. Evening.
- 132 Business Budgeting (3)**  
The preparation and utilization of budgets as an aid to management. Prerequisite: Business Administration 51-52. Morning.  
Business Administration 132x—same as Business Administration 132, but offered fall term. Evening.
- 136 Business Problems (3)** Thatcher  
Survey of business forecasting, purchasing, and other current problems of business. Prerequisite: Business Administration 51-52; Economics 1-2. Evening.
- 145 Cost Accounting (3)** Owens, Byrne  
Job order and process systems of cost findings, interrelation of the cost records and the general accounts, standard costs, distribution costs. Prerequisite: Business Administration 51-52. Morning. (Also offered 1948 summer term.)  
Business Administration 145x—same as Business Administration 145, but offered winter term. Evening.
- 151-52 Intermediate Accounting (3-3)** The Staff  
Partnerships, corporations, funds, reserves, depreciation, and valuation. Prerequisite: Business Administration 51-52. Morning and evening sections. (Also offered 1948 summer term.)  
Business Administration 151x—same as Business Administration 151, but offered winter term. Morning and evening sections.
- 153-54 Advanced Accounting (3-3)** Lewis  
Consolidated statements, liquidations, receiverships, and CPA. problems. Prerequisite: Business Administration 151-52. Morning and evening sections. (Also offered 1948 summer term—Business Administration 153 (3).)
- 155 Analysis of Financial Statements (3)** Kennedy, Steele  
Technique of analyzing financial statements for the guidance of operating executives, directors, stockholders, and creditors; valuation of balance sheet items; determination and interpretation of ratios. Prerequisite: Business Administration 51-52. Morning. (Also offered 1948 summer term.)  
Business Administration 155x—same as Business Administration 155, but offered winter term. Evening.
- 157 Federal Taxation (3)** Miller, Boyd  
Tax problems which confront business enterprise: income, capital stock, pay roll, and excise taxes. Prerequisite: Business Administration 151-52. Morning and evening sections.
- 158 Federal Taxation Problems (3)** Boyd, Miller  
Contemporary tax problems; preparation of income tax returns and of briefs for filing with United States Treasury Department. Prerequisite: Business Administration 157. Morning and evening sections.

- 160 *Federal Accounting* (3) Lewis  
Accounting problems of federal government. Appropriation accounts, encumbrances, fund accounting. Prerequisite: Business Administration 51-52. Evening.
- 165 *Auditing* (3) Byrne  
Duties and responsibilities of the auditor, principles and procedures in making audits, arrangement of working papers and the preparation of reports. Prerequisite: Business Administration 151-52. Evening. (Also offered 1948 summer term.)  
Business Administration 165x—same as Business Administration 165, but offered winter term. Morning.
- 171 *Marketing* (3) Johnson  
A survey of marketing, giving particular attention to consumption, retailing, wholesaling, and sales management; the entire marketing structure and its relation to the total economy. Prerequisite: Economics 1-2. Morning. (Also offered 1948 summer term.)  
Business Administration 171x—same as Business Administration 171, but offered winter term. Evening.
- 172 *Marketing Problems* (3) Johnson  
Marketing principles applied to specific distribution policy and operating problems of retailers, wholesalers, and manufacturers handling consumers' and industrial goods. Prerequisite: Business Administration 171. Morning.
- 173 *Cooperative Marketing* (3) Johnson  
Study of cooperatives with respect to principles and objectives, history and theory, legal and financial structure, sales methods and policies, administrative policies and procedures, and public policy. Prerequisite: Economics 1-2. Evening.
- 175 *Introduction to Foreign Trade* (3) Ogden  
Terminology, trade usages and practices, conditions essential to successful trading, economic bases of international trade, obstacles to trade, tariffs, impact of governmental controls on private trade. Prerequisite: Economics 1-2. Evening.
- 176 *Exporting and Importing* (3) Ogden  
Policy and operating questions of foreign trade, financing and documentation of shipments. Prerequisite: Business Administration 175. Evening.
- 178 *Foreign Markets* (3)  
Pattern of world trade by countries and commodities, method of preparing market surveys, selected regional market analyses. Prerequisite: Economics 1-2. Evening.
- 182 *Public Utilities* (3) Kennedy, Thatcher  
Public utility characteristics, organization, management, financing, combinations, and accounting; regulation, valuation, and rate-making are stressed. Prerequisite: Economics 1-2. Morning.  
Business Administration 182x—same as Business Administration 182, but offered fall term. Evening.



- 185 *Railroad Transportation* (3) Kennedy, Thatcher  
Railroad history, organization, regulations, rate-making theory and practice, accounting, securities, and consolidation. Work of Interstate Commerce Commission stressed. Prerequisite: Economics 1-2. Morning.

Business Administration 185x—same as Business Administration 185, but offered winter term. Evening.

- 186 *Motor, Air, and Water Transportation* (3) Kennedy  
History, organization, economics, regulations, and rates of motor, air, and water carriers; coordination of transportation. Prerequisite: Economics 1-2. Morning.

- 191-92 *Problems in Retailing* (3-3) Johnson  
Principles and problems in retail merchandising, including markup, inventory valuation, and expense control; service and personnel problems. Evening.

- 193 *Accounting Systems* (3) Lewis  
Theory and procedure of designing and installing accounting systems for collecting, recording, analyzing, and presenting accounting data. Prerequisite: Business Administration 145 and 151-52. Evening.

### THIRD GROUP

- 215 *Corporation Financial Problems* (3) Kennedy  
Financial practice in promotion, consolidations and mergers, capital structure adjustments, and reorganizations. Evening. (Also offered 1948 summer term.)

- 216 *Seminar in Business Finance* (3) Kennedy  
Evening.

- 251-52 *Seminar in Accounting* (3-3) Owens  
Evening.

- 260 *Advanced Federal Accounting* (3)  
Advanced principles and practices in federal accounting relationship to general policy and administration. (Not offered in 1948-49.)

- 281-82 *Business Policy* (3-3)  
Evening.

- 285-86 *Seminar in Transportation* (3-3) Kennedy  
(Not offered in 1948-49.)

- 291-92 *Seminar in Business Administration* (3-3)  
Evening. (Also offered 1948 summer term—Business Administration 291 (3).)

- 299-300 *Thesis* (3-3) The Staff



## CHEMISTRY

Colin Mackenzie Mackall, Ph.D., *Professor of Chemistry*  
 Benjamin Douglass Van Evera, Ph.D., *Professor of Chemistry*  
 Samuel Nathaniel Wrenn, Ph.D., *Professor of Chemistry*  
 Charles Rudolph Naeser, Ph.D., *Professor of Chemistry, Executive Officer*  
 Stephen Brunauer, Ph.D., *Professorial Lecturer in Chemistry*  
 William Bultman Holton, Ph.D., *Professorial Lecturer in Chemistry*  
 Robert Corbin Vincent, Ph.D., *Associate Professor of Chemistry*  
 Reuben Esselstyn Wood, Ph.D., *Assistant Professor of Chemistry*  
 William Frederick Sager, M.S., *Assistant Professor of Chemistry*  
 Daniel Norton, Ph.D., *Assistant Professor of Chemistry*  
 John Farago, Ph.D., *Lecturer in Chemistry*  
 James Willard Harkness, B.S., Ed.M., *Instructor in Chemistry*

*The Major in Chemistry (Departmental).*—Prerequisite: Chemistry 11-12, 21, and 22; Mathematics 19 and 20; Physics 5, 6, 7, and 8. Required: Chemistry 111-12, 122, 151-52, and 135 or 155 (two credit hours). The work of the junior and senior years must be approved by the Department. The German language is strongly recommended for all majors, and is essential for all students doing graduate work.

*Requirements for the Master's degree.*—In addition to the requirements for the Bachelor's degree: Chemistry 131-32, 193, 211-12, 251-52, 299-300, and the program must include at least four credit hours of laboratory courses. A reading-knowledge examination in French or German (German preferred) must be passed before the second half of the work is started.

*Registration.*—Before completing registration for courses in which there are laboratory sections, each student must obtain from the representative of the Department an assignment to a laboratory section.

### FIRST GROUP

†11-12 *General Chemistry* (4-4) Naeser, Sager, Harkness  
 Chemistry 11-12 is an elementary course in General Chemistry. Students who have credit for high school chemistry may enter Chemistry 12 or 12x only after passing a qualifying examination. (See the University calendar for the exact date of the qualifying examination which is given in September, January, and June.) Prerequisite: one year of high school algebra. Laboratory fee, \$12 a term. Lecture (2 hours); laboratory (4 hours); recitation (1 hour)—morning, afternoon, and evening sections. (Also offered 1948 summer term.)  
 Chemistry 11x—same as Chemistry 11, but offered winter term. Morning, afternoon, and evening sections.  
 Chemistry 12x—same as Chemistry 12, but offered fall term. Afternoon and evening sections.

- 21 *Qualitative Inorganic Analysis* (4) Vincent  
Theoretical and practical study of methods of separating and identifying the more common cations and anions using semi-micro techniques. Prerequisite: Chemistry 12. Laboratory fee, \$12. Lecture (2 hours); laboratory (6 hours)—morning, afternoon, and evening sections. (Also offered 1948 summer term.)  
Chemistry 21x—same as Chemistry 21, but offered winter term. Lecture—afternoon and evening sections; laboratory—morning, afternoon, and evening sections.
- 22 *Quantitative Inorganic Analysis* (4) Norton  
The principles of gravimetric and volumetric analysis. Prerequisite: Chemistry 21. Laboratory fee, \$15. Lecture (2 hours)—morning and evening sections; laboratory (6 hours)—morning, afternoon, and evening sections. (Also offered 1948 summer term.)

## SECOND GROUP

- †111-12 *Physical Chemistry* (5-5) Wood  
Introduction to physical chemistry. Prerequisite: Chemistry 22 and 152; Mathematics 20; Physics 8. Laboratory fee, \$12 a term. Lecture (3 hours)—morning and evening sections; laboratory (6 hours)—afternoon, evening, and Saturday sections.
- 122x *Quantitative Inorganic Analysis* (4) Norton  
Application of the fundamental principles of analysis to more difficult separations and determinations. Prerequisite: Chemistry 21 and 22. Laboratory fee, \$15. Lecture (1 hour)—morning and evening sections; laboratory (9 hours)—afternoon and evening sections.
- †131-32 *Inorganic Chemistry* (2-2) Naeser  
Application of modern chemical theories to inorganic substances and reactions; detailed study, developed from the periodic table, of the descriptive chemistry of the more common elements. Prerequisite: Chemistry 152. Prerequisite or concurrent registration: Chemistry 111-12. 1948-49 and alternate years, morning; 1949-50 and alternate years, evening.
- 135-36 *Inorganic Chemistry: Preparations* (2-2) Naeser  
Application of the technique of inorganic chemistry to the preparation and purification of a list of selected substances. Prerequisite: Chemistry 152. Prerequisite or concurrent registration: Chemistry 111-12. Laboratory fee, \$14 a term. Laboratory (6 hours), afternoon. (Also offered 1948 summer term.)  
Chemistry 135x—same as Chemistry 135, but offered winter term.
- †151-52 *Organic Chemistry* (4-4) Mackall and Assistants  
Chemistry of the compounds of carbon. Credit is not given for Chemistry 151 until Chemistry 152 is completed. Prerequisite: Chemistry 21. Chemistry 151.—Laboratory fee, \$6. Lecture (3 hours)—morning and evening sections; laboratory (3 hours)—morning, afternoon,

and evening sections. *Chemistry 152*—Laboratory fee, \$12. Lecture (2 hours)—morning and evening sections; laboratory (6 hours)—morning, afternoon, and evening sections. (Also offered 1948 summer term.)

- 155 *Organic Chemistry: Preparations* (2 or 3) Wrenn  
The synthesis of organic compounds and the application of the technique of organic chemistry to the preparation of pure compounds, using larger amounts and greater reagents than in *Chemistry 151-52*. Prerequisite: *Chemistry 22* and *152*. Laboratory fee, \$8 a credit hour. Time to be arranged. (Also offered 1948 summer term.)  
*Chemistry 155x*—same as *Chemistry 155*, but offered winter term.

- 156 *Qualitative Organic Analysis* (2) Mackall  
The identification of pure organic compounds, the separation of mixtures, and the identification of their components. Prerequisite: *Chemistry 22* and *155*. Laboratory fee, \$15. Laboratory (6 hours). Time to be arranged.

- 191 *History of Chemistry* (2) Mackall  
The development of chemistry, and the biographies of eminent contributors to the science. Prerequisite: *Chemistry 22* and *152*. Saturday morning.

- 193 *Chemical Literature* (1) Wrenn  
A general course in chemical literature with reference work and reports. Prerequisite: *Chemistry 22* and *152*; prerequisite or concurrent registration. *Chemistry 111-12*. Evening.  
*Chemistry 193x*—same as *Chemistry 193*, but offered winter term. Morning.

### THIRD GROUP

- 203 *Chemical Kinetics* (2) Wood  
The rates of chemical reaction and the factors influencing them. Prerequisite: *Chemistry 112*. Offered in 1949-50, evening.

- 204 *Catalysis* (2) Brunauer  
Prerequisite: *Chemistry 203*. Offered in 1949-50, evening.

- 211-12 *Advanced Physical Chemistry* (2-2) Van Eevera  
Development and application of the principles of thermodynamics and the kinetic theory to chemical problems. Prerequisite: *Chemistry 112*. 1948-49 and alternate years, morning; 1949-50 and alternate years, evening.

- †221-22 *Advanced Quantitative Analysis* (2-2)  
The theory of the quantitative estimation of the less common elements. Prerequisite: *Chemistry 122* and *132*. (Not offered in 1948-49.)

- 226 *Quantitative Organic Analysis* (3) Vincent  
Micro and semi-micro procedures. Prerequisite: *Chemistry 122* and *152*; permission of the instructor. Laboratory fee, \$12. Time to be arranged.



- †231-32 *Advanced Inorganic Chemistry* (2-2) Holton  
The chemistry of the less familiar elements. Prerequisite: Chemistry 132 and 152. Offered in 1949-50, evening.
- 233-34 *Radiochemistry* (2-2) Holton  
The preparation, properties, and uses of radioactive isotopes, both natural and artificial. Prerequisite: Chemistry 111-12 and 131-32. Evening.
- 251-52 *Advanced Organic Chemistry* (3-3) Wrenn  
The syntheses, reactions, and properties of carbon compounds; the fundamental theories of organic chemistry. Prerequisite: Chemistry 152; prerequisite or concurrent registration: Chemistry 111-12 and 193. Evening.
- 253 *Advanced Synthetic Organic Chemistry* (3) Wrenn  
A critical study of the reactions employed in the synthesis of organic compounds. Prerequisite: Chemistry 251. Time to be arranged.
- 254 *Stereochemistry* (2) Mackall  
The stereochemistry of organic compounds. Prerequisite: Chemistry 252. Offered in 1949-50.
- 258 *The Steroids* (2) Farago  
The chemistry of vitamins and hormones. Prerequisite: Chemistry 251-52. Evening.
- 291-92 *Seminar: Recent Developments in Chemistry* The Staff  
(1-1)  
Individual investigations of special problems. All students registered for a Master's degree in chemistry are expected to attend this seminar during residence for the degree, and to take part in its programs. Credit for participation in the seminar work may be obtained by registering for this course during the last two terms of residence; this credit, however, is based upon the seminar work during the entire period of residence. Alternate weeks, evening.
- 295-96 *Research* The Staff  
Research on problems approved by the staff. Open to qualified students with advanced training. Laboratory fee, \$6 a credit hour. Hours and credits to be arranged. (Also offered 1948 summer term.)
- 299-300 *Thesis* (3-3) The Staff  
Laboratory fee, \$15 a term. Hours to be arranged. (Also offered 1948 summer term.)



## CIVIL ENGINEERING

Carl Hugo Walther, B.E., M.C.E., *Professor of Civil Engineering*

Bruce Douglas Greenshields, B.S. in C.E., C.E., Ph.D., *Professor of Civil Engineering, Executive Officer*

Waldo Edward Smith, B.E., M.S. in C.E., *Professorial Lecturer in Civil Engineering*

Raymond Pugh Eyman, C.E., *Associate Professor of Civil Engineering*

James Joseph Kerley, Jr., A.B. in C.E., *Assistant Professor of Civil Engineering*

Edgar Stover Walker, B.S. in C.E., *Lecturer in Civil Engineering*

George Francis Strollo, B.S. in C.E., M.C.E., *Lecturer in Civil Engineering*

Ralph Edward Fuhrman, B.S. in C.E., M.S., *Lecturer in Civil Engineering*

Sarkis Bagdoyan, B.S. in C.E., *Lecturer in Civil Engineering*

Moses Freedman, B.S. in Eng., *Lecturer in Civil Engineering*

William Gammon Hayward, B.S. in C.E., *Lecturer in Civil Engineering*

Nicholas Mandragos, B.S. in C.E., *Lecturer in Civil Engineering*

Alvin Raymond Schwab, B.S., M.S. in Eng., *Lecturer in Civil Engineering*

Asriel Taragin, B.E., *Lecturer in Civil Engineering*

*Minimum requirements for the major.—See pages 108-9.*

### FIRST GROUP

#### 2 *Plane Surveying* (3)

Eyman and Staff

Principles, methods, and instruments used in surveying; with field work. Prerequisite: Trigonometry. Surveying fee, \$8. Morning, afternoon, and evening sections; field work—morning and afternoon sections. (Also offered 1948 summer term.)

#### 15 *Navigation* (3)

Eyman

Principles, methods, and instruments used in surface and aerial navigation. Charts, piloting, dead-reckoning, nautical astronomy, position determination. Prerequisite: Trigonometry. (Not offered in 1948-49.)

#### 21 *Analytical Mechanics:*

Greenshields and Staff

##### *Statics* (2)

Composition and resolution of forces; axial stresses; centroids; friction. Prerequisite: Physics 6; prerequisite or concurrent registration: Mathematics 20. Morning and evening sections. (Also offered 1948 summer term.)

- 22 Analytical Mechanics: Dynamics (3)** Greenshields and Staff  
Kinematics of a particle; kinetics of a body in translation, rotation, and plane motion; work and energy; impulse and momentum; simple vibrations. Prerequisite: Civil Engineering 21. Morning and evening sections. (Also offered 1948 summer term.)
- 23 Higher Surveying (4)** Eyman, Walker  
Elements of geodesy, triangulation, topography, hydrography, and precise and trigonometric leveling, with field work. Prerequisite: Civil Engineering 2. Surveying fee, \$8. Lecture—morning and evening sections; field work—afternoon and Saturday morning sections.
- 25-26 Engineering Materials (2-2)** The Staff  
Emphasis on properties and uses of nonmetallic materials such as cements, fuels, and plastics; and metallic materials including steel, copper, aluminum, and alloys. Prerequisite or concurrent registration: Chemistry 12. Morning and evening sections. (Also offered 1948 summer term.)

## SECOND GROUP

- 123 Strength of Materials (3)** Kerley, Smith  
Tension, compression, shear, flexure, and torsion; deflection; combined and working stresses. Prerequisite: Civil Engineering 22. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)
- 136 Hydraulics (3)** Kerley, Smith  
Hydrostatics: flow through pipes and open channels; laminar and turbulent flow. Prerequisite: Civil Engineering 22. Morning and evening sections. (Also offered 1948 summer term.)
- 140 Materials and Hydraulics Laboratory (2)** Kerley  
Determination of the properties of materials by mechanical tests, and a study of the flow of fluids. Prerequisite: Civil Engineering 123; prerequisite or concurrent registration: Civil Engineering 26 and 136. Laboratory fee, \$6. Afternoon and evening sections. (Also offered 1948 summer term.)  
Civil Engineering 140x—same as Civil Engineering 140, but offered fall term. Afternoon and evening sections.
- 141 Graphic Statics (3)** Mandragos, Schwab  
Fundamental principles; analyses of beams; determination of stresses in roof trusses and framed bents. Prerequisite or concurrent registration: Civil Engineering 123. Drafting-room fee, \$1. Lecture (2 hours)—morning and evening sections; drafting room (3 hours)—afternoon and evening sections. (Also offered 1948 summer term.)
- 142 Bridge Stresses (3)** Mandragos, Schwab  
Determination of stresses in modern types of bridge trusses. Prerequisite: Civil Engineering 141. Drafting-room fee, \$1. Lecture (2 hours)—morning and evening sections; drafting room (3 hours)—afternoon and evening sections. (Also offered 1948 summer term.)

- 147-48 *Structural Design* (2-2) Walther, Bagdoyan  
Computations and drawings for the design of steel structures. Prerequisite: Civil Engineering 142. Drafting-room fee, \$3 a term. 1948-49 and alternate years, afternoon and evening sections; 1949-50 and alternate years, afternoon.
- 149-50 *Concrete and Masonry Construction* (3-3) Strollo  
Plain concrete, general properties and theory of reinforced concrete, foundations, and retaining walls. Prerequisite: Civil Engineering 25 and 123. Civil Engineering 149, laboratory fee, \$6; Civil Engineering 150, drafting-room fee, \$1. Lecture (2 hours)—morning and evening sections; laboratory (3 hours)—afternoon and evening sections.
- 151-52 *Statically Indeterminate Structures* (2-2) Walther  
A study of such structures as continuous spans, rigid frames, and arches by methods of work, slope deflection, and moment distribution. Prerequisite: Civil Engineering 142. Evening.
- 154 *Advanced Mechanics of Materials* (3)  
Advanced topics in the mechanics of materials. Stresses at a point, thick cylinders, general bending, torsion, localized stress, and stress concentration. Prerequisite: Civil Engineering 25-26 and 123. (Not offered in 1948-49.)
- 164 *Highway Engineering* (3) Greenshields, Taragin  
Highway economics, location, construction, and maintenance. Prerequisite: Civil Engineering 25 and 171. Evening.
- 171 *Route Surveying* (3) Eyman, Hayward  
Curves and earthwork, and methods of location as used on railroads and highways; field work; complete highway location. Prerequisite: Civil Engineering 2. Surveying fee, \$8. Lecture (2 hours)—morning and evening sections; field work (3 hours)—afternoon and Saturday morning sections.
- 172 *Railroad Engineering* (3)  
Track construction and requirements, rolling stock, cost and operation of railroads, with field work. Prerequisite: Civil Engineering 171. Surveying fee, \$8. (Not offered in 1948-49.)
- 181-82 *Water Supply and Sewerage* (3-3) Fuhrman  
Collection, storage, purification, and distribution of water; ~~sewerage~~ systems and treatment of sewage. Prerequisite: Civil Engineering 136; Chemistry 12. Evening.
- 187-88 *Engineering Contracts and Specifications* Freedman  
(2-2)  
Contract essentials, types, and legal principles; analysis and preparation of specifications. Prerequisite or concurrent registration: Civil Engineering 25-26. Evening.
- 189-90 *Civil Engineering Proseminar* (1-1) Greenshields  
Afternoon and evening sections.



## CLASSICAL LANGUAGES AND LITERATURES

John Francis Latimer, Ph.D., *Associate Professor of Classical Languages and Literatures, Executive Officer*

Sylvia Gerber, A.M., *Associate in Classical Languages and Literatures*

### FIRST GROUP

†1-2 *First-year Latin (3-3)* Latimer  
Essentials of Latin grammar, prose composition, easy reading selections. Morning.

†3-4 *Second-year Latin (3-3)* Gerber  
Rapid review of Latin grammar, prose composition, wide variety of rapid reading selections. Evening.

†11-12 *First-year Greek (3-3)* Latimer  
Essentials of Greek grammar, prose composition, easy reading selections. Evening.

†13-14 *Second-year Greek (3-3)* Latimer  
Rapid review of Greek grammar, prose composition, wide variety of rapid reading selections. Morning.

71-72 *Greek and Roman Backgrounds in Literature (3-3)\** Latimer  
A survey in English translation of the principal Greek and Roman authors and their literary influence. Morning.

### SECOND GROUP

109-110 *Survey of Roman Literature (3-3)* Latimer  
Morning.

\* This course will meet the second-year English requirement of the Junior College curricula for admission to Columbian College.



## DERMATOLOGY AND SYPHILOLOGY

Harry Ford Anderson, M.D., *Professor of Dermatology and Syphilology, Executive Officer*

George William Creswell, A.B., M.D., *Assistant Clinical Professor of Dermatology and Syphilology*

Hayden Kirby-Smith, B.S., M.D., *Assistant Clinical Professor of Dermatology and Syphilology*

Theodore Claremont Chen Fong, M.D., *Associate in Dermatology and Syphilology*

James Quincy Gant, Jr., M.S., M.D., *Associate in Dermatology and Syphilology*

Wendell Melvin Willett, M.D., *Clinical Instructor in Dermatology and Syphilology*

313-14 *Dermatology and Syphilology* The Staff  
Lectures on diseases of the skin and syphilis. One hour a week.

316 *Neurosyphilis* Fong  
Lectures, clinical demonstrations, and practical diagnostic and therapeutic procedures. One hour a week for eight weeks.

317-18 *Clinic* The Staff  
Case demonstrations, diagnosis, and treatment of skin diseases and syphilis. Three hours a week. Gallinger Hospital.

407-8 *Clinic* The Staff  
Dermatology and syphilology in infants and children. Childrens Hospital. Two hours a week.

409-10 *Clinic* The Staff  
Clinical demonstration, diseases of the skin. Two hours a week. Emergency Hospital.

411-12 *Clinic* The Staff  
Clinical demonstrations, diseases of the skin, and diagnosis and therapy of syphilis. One hour a week. University Hospital.

413-14 *Clinic* Creswell  
Diagnosis, laboratory procedures, and treatment of syphilis. Two hours a week. Southwest Health Center.

## ECONOMICS

Arthur Edward Burns, Ph.D., *Professor of Economics*

Donald Stevenson Watson, Ph.D., *Professor of Economics, Executive Officer*

James Christopher Corliss, A.M., *Adjunct Professor of Inter-American Economics*

Gerhard Colm, Dr. rer. pol., *Professorial Lecturer in Economics*

Ralph Aubrey Young, M.B.A., Ph.D., *Professorial Lecturer in Economics*

Edward Campion Acheson, Ph.D., *Associate Professor of Finance*

Paul Edward Hanchett, Ph.D., *Assistant Professor of Economics*

Albert Raymond Miller, Jr., A.M., *Assistant Professor of Economics*

James Coogan, A.M., *Assistant Professor of Economics*

Henry William Blalock, Ph.D., *Lecturer in Economics*

Edwin Medbery Fitch, Ph.D., *Lecturer in Economics*

Roger Sherwood Nelson, Ph.D., *Lecturer in Economics*

Grover William Ensley, M.B.A., Ph.D., *Lecturer in Economics*

*The major in Economics (Departmental).*—Prerequisite: Economics 1-2. Required: (1) Economics 101 and three additional credit hours in economic theory (courses numbered 100-109); (2) six credit hours in each of three of the four following groups: finance (courses numbered 120-29), labor (courses numbered 140-49), government and economic policy (courses numbered 160-69), and international economics (courses numbered 180-92); (3) Statistics 111-12, and nine credit hours of other second-group courses selected from the following departments—Business Administration, History, Philosophy, Political Science, Sociology, and Statistics.

*The major in Latin American Civilization and Culture (Field-of-Study).*—The major, administered under the field-of-study plan, includes the political and social history, the economic development, the governmental structure and international relations, the principle literary works and writers, and a reasonable acquaintance with the spoken language of the Latin American republics. The Department of Economics provides a proseminar (Economics 193-94) intended to assist the student in preparing himself for the major examination. For further details, see the pamphlet, which is available in the Office of the Dean of Columbian College.

### FIRST GROUP

#### 1-2 *Introductory Economics\** (3-3)

The Staff

Survey of the major economic institutions and economic problems in contemporary society. Economics 1 is prerequisite to Economics 2. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)

\* Economics 1-2 is prerequisite to all other courses in economics.

Economics 1A—same as Economics 1, but offered winter term. Morning and evening sections.

Economics 2A—same as Economics 2, but offered fall term. Morning and evening sections.

### SECOND GROUP \*

- 101 *Economic Theory* (3) The Staff  
Introduction to formal economic theory; advanced analysis of demand, supply, and price relations. Morning and evening sections. (Also offered 1948 summer term.)

Economics 101A—same as Economics 101, but offered winter term. Morning and evening sections.

- 102 *History of Economic Thought* (3) Burns  
Economic doctrines since the mercantilist writers; the history of the major schools of thought; influence of changing problems on theory. Morning and evening sections.

- 105 *Business Cycles* (3) Burns  
Analysis of strategic factors in economic instability and economic retardation; survey of recent business-cycle theories. Morning. (Also offered 1948 summer term.)

- 108 *The National Income* (3) Miller  
The measurement, composition, and determinants of the national income. Evening.

- 121-22 *Money and Banking* (3-3) Acheson  
Money, bank credit, and prices; commercial and investment banking; banking systems; historical development of banking; government and banking; functions of money and banking. Morning and evening sections. (Also offered 1948 summer term.)

- 123 *Monetary Theory* (3) Acheson  
The development of monetary theory; principal contemporary approaches; theoretical background of recent monetary policy. Morning.

- 126 *Foreign Exchange and International Finance* (3) Acheson  
Theory and practice of foreign exchanges; the gold standard and international finance during the nineteenth century; war and postwar exchange problems. Prerequisite: Economics 121-22. Evening.

- 141 *Labor Economics* (3) Miller  
Labor problem: wages, hours, and working conditions; growth of labor organizations; types of unions; union tactics and programs. Morning and evening sections.

- 142 *Government and Labor Problems* (3) Miller  
Labor legislation; labor and the courts; federal regulation of capital-labor relations; the work of federal labor boards. Morning and evening sections.

\* Economics 1-2 is prerequisite to all other courses in economics.



- 144 *Labor Movements* (3) \_\_\_\_\_  
Survey of growth and types of labor unions, development and problems of collective bargaining.  
Summer term 1948.
- 146 *Economic Security and Social Insurance* (3) \_\_\_\_\_  
Economic and social problems of unemployment and destitution; analysis of the federal social security program; survey of the Beveridge and other plans. (Not offered in 1948-49.)
- 161-62 *Public Finance and Taxation* (3-3) Hanchett  
General survey of government expenditures, sources and methods of taxation, economic effects of expenditures and taxes, and of government debt policies. Morning and late afternoon sections.
- 165 *Government Control of Economic Activity* (3) Watson  
Changing role of government in promoting and regulating economic activity; types and spheres of control. Morning.
- 166 *Comparative Systems of Economic Reform* (3) Watson  
Critical analysis of the major theories of economic and social reform, with special attention to their origins and backgrounds.  
Summer term 1948.
- 167 *Economics of Planning* (3) Watson  
Analytical comparison of economic systems coordinated by market price with those coordinated by central authority. (Not offered in 1948-49.)
- 181-82 *International Economics* (3-3) \_\_\_\_\_  
Survey of world economics; basic factors; resource controls; international trade; industrial, financial, and monetary processes and policies; relation to internal economic systems. Afternoon and evening sections. (Also offered 1948 summer term.)
- 183 *Tariffs and Commercial Treaties* (3) \_\_\_\_\_  
Origins and types of modern foreign commercial policy, in the light of evolving doctrines; forms and economic effects of tariffs and other measures, and of international commercial accords. Evening.
- 184 *The New Foreign Economic Policies* (3) \_\_\_\_\_  
The new types of foreign trade and exchange controls and agreements; causes, growth, and techniques. Evening.
- 185-86 *Economic History and Problems of South America* (3-3) Corliss  
Economic development of South America (excluding Colombia and Venezuela). Particular emphasis on economic developments and problems since the First World War. 1948-49 and alternate years, evening.
- 187-88 *Economic History and Problems of the Caribbean Area* (3-3) Corliss  
Economic developments of Colombia, Venezuela, Mexico, and the Central American and West Indian republics. Particular emphasis on economic developments and problems since the First World War. 1949-50 and alternate years, evening.



193-94 *Proseminar in Latin American Civilization and Culture* (3-3) Corliss

Coordination and review course. Open only to candidates majoring in Latin American Civilization and Culture. Time to be arranged.

198 *Readings in Economics* (3) The Staff

Comprehensive survey of economics. Open only to students whose major is economics and who are in their last term. Time to be arranged.

Economics 198x—same as Economics 198, but offered fall term. Time to be arranged.

THIRD GROUP

201-2 *History and Literature of Economic Thought* (3-3) Burns

Critical analysis and interpretation of the development and the literature of economic thought; origins and problems of the major types of theory; their relation to present problems and policies. Evening.

203 *Partial Equilibrium Theory* (3) Watson

The contributions of Marshall, Chamberlin, and Robinson. Evening.

204 *Contemporary Economic Theory* (3) Watson

Intensive analysis of Hicks' *Value and Capital*. Prerequisite: Economics 201-2. Evening.

205 *Business Cycle Theory* (3) Burns

The contributions of the pre-Keynesian writers.  
Summer term 1948.

206 *Theory of Employment and Income* (3) —————

Analysis of several types of current business-cycle theories; recent works of Keynes and others. Evening.

208 *The National Income* (3) Nelson

The theory of economic aggregates; policy aspects of national income. Evening.

210 *Methodology in Economics* (3) Burns

The nature of economic theory; relations of economics to philosophy and other disciplines. (Not offered in 1948-49.)

223 *Monetary Policy and Problems* (3) Young

The money system in its relation to national income and to the national debt. Policy issues. Evening.

224 *Central Banking* (3) Young

The Federal Reserve and other central banking systems. Evening.

- 225 *Economic Stabilization Policies* (3) \_\_\_\_\_  
Appraisal of economic policies directed towards the stabilization of the economy, with special attention to the problem of full employment. (Not offered in 1948-49.)
- 241 *Labor Economics* (3) Fitch  
Analysis of labor problems, with special reference to labor organization; intensive study of federal regulation and participation in capital-labor relations. Evening.
- 244 *Labor Relations* (3) Fitch  
The collective bargaining contract and the elements comprising it; analysis of the policies of labor and of management. Evening.
- 260 *Theory of Public Finance* (3) Hanchett  
Survey of the literature on public finance, with special attention to controversial issues.  
Summer term 1948.
- 261-62 *Public Finance and Fiscal Policy* (3-3) Colm  
Survey of the major contributions to the theory and doctrines of public finance. Special problems: deficit financing; current tax problems; and federal, state, and local financial relationships. Evening.
- 265 *Theory of Economic Policy* (3) Ensley  
The nature, forms, methods, and objectives of economic policy; the relation of economic theory to economic policy. Evening.
- 266 *Problems of Governmental Economic Policy* (3) Ensley  
The execution of economic policies as they are affected by the processes of government. Evening.
- 281 *Theories of International Economics* (3) \_\_\_\_\_  
Examination and critique of mercantilism, classical international equilibrium analysis, and other schools of world economic thought. Evening.
- 282 *The Balance of International Payments* (3) \_\_\_\_\_  
Structure and theories of the balance; money and foreign exchange and interrelationships of trade, gold flows, capital movements, etc.; the balance and foreign economic policy formulation. Evening.
- 285-86 *Public and Private Finance in Latin America* Corliss  
(3-3)  
Corporate finance, banking, and capital movements in Latin America; fiscal problems; public debt, deficit financing, taxation, public expenditures; foreign-exchange controls and problems. A reading knowledge of Spanish or Portuguese is required. Evening.
- 287-88 *Economic Problems of Latin America* (3-3) Corliss  
Foreign trade and foreign commercial policy; growth of industry and agriculture; government control of economic activity; recent economic trends and problems. (Not offered in 1948-49.)

- 289 *Problems in International Financial Policy* Acheson  
(3)

Analysis of the issues confronting the International Monetary Fund and the International Bank for Reconstruction and Development. Evening.

- 290 *Problems in International Economic Policy* ————  
(3)

Exchange stabilization; issues confronting the International Trade Organization. Evening.

- 297-98 *Thesis* (School of Government majors) (3-3) The Staff

- 299-300 *Thesis* (3-3) The Staff

## EDUCATION

James Harold Fox, A.M., Ed.D., *Professor of Education, Executive Officer*

Burnice Herman Jarman, A.M., Ed.D., *Professor of Education*

William Cullen French, Ph.D., *Professor Emeritus of Education in Residence*

Meredith Chester Wilson, B.S., *Adjunct Professor of Education*

Ruth Coyner Little, Ph.D., *Professorial Lecturer in Education*

Lindley Hoag Dennis, A.M., Voc. Ed.D., *Professorial Lecturer in Education*

\*Ray LaForest Hamon, Ph.D., *Professorial Lecturer in Education*

\*Benjamin Franklin Kyker, A.M., *Professorial Lecturer in Education*

Charles Edward Bish, A.M., Ed.D., *Professorial Lecturer in Education*

\*Henry Fred Alves, A.M., *Professorial Lecturer in Education*

Frederick Barton Tuttle, Ph.D., *Associate Professor of Education*

Blake Smith Root, A.M., *Associate Professor of Education*

Ralph Windsor Ruffner, A.M., *Associate Professor of Education*

Arthur Hoppe, M.S., Ed.D., *Assistant Professor of Education*

Jane Frost Hilder, A.M., *Lecturer in Education, Director of Reading Clinic*

\*Madaline Kinter Remmlein, Ph.D., J.D., *Lecturer in Education*

LuVerne Crabtree Walker, A.M., *Lecturer in Education*

Helen Barton Goodwin, A.M., *Lecturer in Education*

Camilla Painter Luecke, A.M., *Lecturer in Education*

Florence Mary Lumsden, A.M., Ed.D., *Lecturer in Education*

William Samuel Rumbough, A.M., *Lecturer in Education*

Cannon Chiles Hearne, A.M., *Lecturer in Education*

Marie Marguerite Neeb, A.M., *Clinician, Reading Clinic*

## CONSULTANT IN RESEARCH

Benjamin William Frazier, Ed.D., *Specialist for Teacher Education, Division of Higher Education, United States Office of Education*  
*Minimum requirements for the degrees.—See pages 127, 131-34.*

\* On leave of absence 1948-49.



## SECOND GROUP

- 109-10 *Learning and Teaching* (3-3) Ruffner  
For the general student as well as the prospective teacher. Fall term: nature of learning and teaching approached through the study of actual classroom situations. Winter term: the principles and practices of good teaching. Lecture (2 hours)—morning and evening sections; field work (2 hours)—to be arranged. (Also offered 1948 summer term.)
- 115 *Elementary School Classroom Procedures* (3)  
Determination of children's needs and interests, providing for individual differences, evaluation of classroom practices.  
Summer term 1948.
- 121-22 *Society and the School* (3-3) Jarman, Tuttle  
For the general student as well as the prospective teacher. Fall term: the local, national, and international roles of education; cooperation of the school with other community agencies. Winter term: organization and operation of schools; principles and functions. Lecture (2 hours)—morning and evening sections; field work (2 hours)—to be arranged. (Also offered 1948 summer term.)
- 123-24 *Reading Problems* (3-3) Hilder  
A clinical approach to reading difficulties on elementary and secondary school levels. Saturday morning.
- 125 *Corrective Procedures in Reading* (3)  
Study of levels, needs, materials, and corrective methods. Demonstrations and observations with clinic cases.  
Summer term 1948.
- 131 *Common Teaching Skills* (3) Root  
Course, unit, and lesson planning; homeroom procedures; discipline, clerical routines; activity sponsorship; committee procedures; public relations duties. Lecture (2 hours)—late afternoon; field work (2 hours)—to be arranged.
- 133-34 *Observation and Practice Teaching* (2 to 6) Root  
Education 134, practice-teaching fee, \$8 a credit hour. Admission by permission of the instructor. Time and credits to be arranged individually.

## SPECIAL METHODS COURSES

To be elected in the senior year after substantial preparation in the teaching fields concerned. Course requirements and hours of credit vary with license requirements. Practices of successful teachers are studied and actual teaching content as found in current texts and courses of study is reviewed.

- 136 *Teaching English* (2 to 4) Lumsden  
Lecture (2 hours)—evening; field work (2 hours)—to be arranged.

- 138 *Teaching Social Studies (2 to 4)* \_\_\_\_\_  
Lecture (2 hours)—evening; field work (2 hours)—to be arranged.
- 140 *Teaching Mathematics (2)* Weida  
Time to be arranged.
- 141-42 *Teaching Art (3-3)* Goodwin  
Saturday morning.
- 144 *Teaching Science (2 to 4)* Rumbough  
Lecture (2 hours)—late afternoon; field work (2 hours)—to be arranged.
- 146 *Teaching Foreign Languages (2 to 4)* Doyle, Keating  
Time to be arranged.
- 148 *Teaching Home Economics (2)* Kirkpatrick  
Time to be arranged.

## THIRD GROUP

- 205-06 *The Curriculum (3-3)* Hoppe  
General principles and practices of curricular development; modern trends and procedures of improvement; group consideration of student problems. Saturday morning.
- 207 *Curriculum Planning (3)*  
Relation of courses of study to the curriculum, major factors underlying courses of study construction, analysis of procedures, review of typical published courses, application to the student's own situation.  
Summer term 1948.
- 209-10 *Child Growth and Development (3-3)* Hoppe  
Basic factors in human growth and development and their relation to learning and teaching. Related practical experience in studying children with class analyses of procedures and results. Evening. (Also offered 1948 summer term—Education 209 (3).)
- 211 *Evaluation in Education (3)*  
Nature, functions, and techniques.  
Summer term 1948.
- 213-14 *History of Education (3-3)* Tuttle  
Fall term: the European backgrounds of American education. Winter term: the evolution of the American school system. Evening.
- 215-16 *Seminar: Great Teachers in American Education (3-3)* French  
A study of great teachers from the colonial period to the present. An attempt will be made to find out the qualities and characteristics that have made these teachers great. Evening.

- 217-18 *Contemporary Problems in Education* (3-3) Jarman  
Fall term: designed to help students formulate a personal philosophy of education. Winter term: a study of the forces that shape the policies and offerings of the school. Evening. (Also offered 1948 summer term—Education 218 (3).)
- 220 *The Modern Elementary School* (3)  
Historical development, current organization, comparison with other countries.  
Summer term 1948.
- 221-22 *Seminar: Early Childhood Education* (3-3) Little  
Fall term: home backgrounds, nursery school, and kindergarten situations. Winter term: primary grades. Evening.
- 223 *Use of Community Resources by Schools* (3)  
Surveying the community classroom use of materials, planning and conducting excursions, discussion of community experiences.  
Summer term 1948.
- 224 *Newer Developments in Children's Literature* Walker (3)  
Exploring and evaluating the newer books for children and the children's classics; understanding the contribution of literature in child development; appreciating children's original expressions; surveying resources in the field. Evening.
- 225-26 *Seminar: Elementary Education in the Intermediate Grades* (3-3) Little  
A comprehensive study of the major problems of the intermediate grades. (Not offered in 1948-49.)
- 227-28 *Elementary Education* (3-3) Tuttle  
Fall term: discussion of fundamental issues in the light of their historical development, parallel situations in other countries, and current proposed solutions. Winter term: relationships of developments in each instructional area to the fundamental issues. Saturday morning.
- 230 *Administration of Elementary Education* (3) Tuttle  
The principal as a school and community leader. Problems of supervision, course of study development, parent relations. Evening.
- 231 *Secondary School Classroom Procedures* (3) Bish, Root  
Survey of current classroom practices with particular attention to teaching aids; reviews of recent literature. Evening. (Also offered 1948 summer term (3).)
- 233 *Audio-visual Education* (3) Luecke  
Selection and use of audio-visual aids; management of materials and equipment. Material fee, \$5. Lecture (2 hours), laboratory (2 hours)—Saturday morning.  
Education 233x—same as Education 233, but offered winter term. Saturday morning.



- 247-48 *Vocational Education* (3-3) Dennis  
Major issues, problems, and trends. Evening.
- 251 *Guidance in Secondary Schools* (3) \_\_\_\_\_  
Scope; needs; organization of the program; services to students, the instructional staff, and the administration; personnel needed for the program. Evening.
- 254 *The Junior High School* (3) Bish, Root  
Purposes; organization; core programs; guidance; developing courses of study; extra-classroom activities. Evening.
- 255-56 *Secondary Education* (3-3) Bish, Root  
Fall term: review of recent literature and practices; particular attention to *Education for All American Youth*, the recent report of the Educational Policies Commission, and *General Education in a Free Society*, Harvard Committee. Winter term: current problems in each of the subject-matter fields. Saturday morning. (Also offered 1948 summer term.)
- 259-60 *Secondary School Management* (3-3) Fox  
Management planning, execution, and control; criteria of good management; construction of the master schedule; leadership problems incident to the development of new policies and programs. Saturday morning.
- 263-64 *Employee Training* (3-3) Root  
Organization and administration of employee-training programs in accordance with operating needs; orientation, supervisory, and skills training; coordination of training with other personnel functions; evaluation of training. Field work is required. Evening.
- 271 *The American School System* (3) Fox  
Organization of public education; sources of school revenue; influences of national and state agencies; local administrative units; the chief legal controls; criteria of building administration; responsibilities of teachers. Evening. (Also offered 1948 summer term.)
- 272 *The Teacher and School Supervision* (3) Fox  
Nature, organization, human relationships, and techniques. Evening. (Also offered 1948 summer term.)
- 273-74 *Administration of a School System* (3-3) \_\_\_\_\_  
A comprehensive survey of the management problems of a beginning superintendent; does not anticipate previous experience as a superintendent. Evening.
- 275 *School Finance* (3) Alves  
Educational financial theory, practice, and control, including methods of financing. (Not offered in 1948-49.)
- 276 *Seminar: Public Relations in School Administration* (3) Fox  
Purposes; gathering materials; disseminating agencies; publicity media; public participation in policy-making. (Not offered in 1948-49.)



- 278x *School Law* (3) Remmlein  
Sources and scope of school law; legal rights and responsibilities of teachers, pupils, and taxpayers. Other legal problems of major interest to the group. (Not offered in 1948-49.)
- 279-80 *Adult Education* (3-3) Ruffner  
Fall term: nature, extent, and organization of programs in adult education. Winter term: interest, needs, and capacities of adult learners; techniques employed in motivating and directing learning activities. Evening. (Also offered 1948 summer term—Education 279 (3).)
- 285 *Extra-classroom Activities* (3)  
Home room functions; student self-government, clubs, assemblies, school publications.  
Summer term 1948.
- 287-88 *Clinical Study of Reading Problems* (3-3) Hilder  
For advanced students. Diagnostic work under supervision in the Reading Clinic. Admission by permission of the instructor. Saturday morning.
- 289 *Special Education* (3) Tuttle  
A survey of current practices in the education of the exceptional child; the physically handicapped; the mentally defective; the gifted. Evening.
- 291 *Planning the School Plant* (3)  
Selection of sites; evaluation of existing buildings; utilization of present facilities; adaptation to curricular needs; building, operation, and maintenance problems. (Not offered in 1948-49.)
- 293-94 *Research* (3-3) The Staff  
Individual research under the guidance of a member of the staff. Program and conferences arranged with an instructor.
- 295 *Educational Research Methods and Procedures* (3) Fox  
Required of all Master of Arts candidates following Plan 2. Knowledge of elementary statistics required. Evening. (Also offered in 1948 summer term.)  
Education 295x—same as Education 295, but offered winter term. Late afternoon.
- 297 *Reading in Education* (1) The Staff  
To assist those preparing for the comprehensive examination. No credit toward degree requirements. Late afternoon.  
Education 297x—same as Education 297, but offered winter term. Late afternoon.
- 299-300 *Thesis* (3-3) The Staff  
Required of all Master of Arts candidates following Plan 1. Time to be arranged. (Also offered 1948 summer term.)

## ELECTRICAL ENGINEERING

Norman Bruce Ames, M.S., E.E., LL.B., *Professor of Electrical Engineering, Executive Officer*

Forest Klaire Harris, Ph.D., *Professorial Lecturer in Electrical Engineering*

Newbern Smith, M.S. in E.E., Ph.D., *Professorial Lecturer in Electrical Engineering*

Milton Kent Akers, B.S., E.E., *Associate Professor of Electrical Engineering*

William Sutton Carley, M.S. in E.E., *Associate Professor of Electrical Engineering*

Dwight Edward Shytle, *Lecturer in Electrical Engineering*

Thomas Alvin O'Halloran, B.E.E., *Lecturer in Electrical Engineering*

Malcolm Richardson Moore, B.E.E., *Lecturer in Electrical Engineering*

Ralph Brady, B.S. in E.E., *Lecturer in Electrical Engineering*

Jerome Strauss Antel, Jr., B.S. in E.E., *Instructor in Electrical Engineering*

George Pida, B.E.E., *Associate in Electrical Engineering*

*Minimum requirements for the major.—See pages 108, 110.*

### FIRST GROUP

9-10 *Elements of Electrical Engineering (3-3)* Ames  
Electrical Engineering 9: magnetic and electric circuits, and direct-current instruments and machines; Electrical Engineering 10: alternating-current circuits, instruments, and machines. Prerequisite: Physics 7. Prerequisite or concurrent registration: Mathematics 20. Morning and evening sections. (Also offered 1948 summer term.)

13-14 *Electrical Laboratory (2-2)* The Staff  
For the student not majoring in electrical engineering. Experiments in direct and alternating currents and direct- and alternating-current machinery. Prerequisite: Electrical Engineering 10. Laboratory fee, \$6 a term. Afternoon and evening sections. (Also offered 1948 summer term.)

### SECOND GROUP

105-6 *Direct-Current Laboratory (2-2)* The Staff  
For the student majoring in electrical engineering. A course in measurements and direct-current dynamo laboratory. Prerequisite: Electrical Engineering 9-10. Laboratory fee, \$6 a term. Afternoon and evening sections. (Also offered 1948 summer term.)

- 107 *Alternating-Current Circuits* (3) Antel  
Alternating-current-circuit theory. Extensive consideration is given to harmonic analysis and to the study of harmonics in both single-phase and polyphase circuits. Prerequisite: Electrical Engineering 10. Morning and evening sections. (Also offered 1948 summer term.)
- 108 *Alternating-Current Machinery* (3) Akers  
Synchronous generators and motors, transformers, and mercury arc rectifiers. Prerequisite: Electrical Engineering 107. Morning and evening sections. (Also offered 1948 summer term.)
- 109 *Alternating-Current Machinery* (3) Akers  
A continuation of Electrical Engineering 108. Converters, induction motors, single-phase motors. Prerequisite: Electrical Engineering 108. Afternoon and evening sections.
- 111-12 *Electrical Measurements* (2-2) Antel, Harris  
Theory of direct-current and alternating-current instruments, bridges, and meters. Prerequisite or concurrent registration: Electrical Engineering 107. Morning and evening sections. (Also offered 1948 summer term.)
- 118 *Advanced Network Theory I* (3) Carley  
Theory of linear networks and transmission lines, including wave guides, at all frequencies. Prerequisite: Electrical Engineering 107. Morning and evening sections. (Also offered 1948 summer term.)
- 119 *Advanced Network Theory II* (3) Carley  
A continuation of Electrical Engineering 118. Prerequisite: Electrical Engineering 118. Morning and evening sections.
- 120 *Advanced Network Laboratory I* (2) Carley  
A laboratory course associated with Electrical Engineering 118-19. Laboratory fee, \$6. Morning and evening sections. (Also offered 1948 summer term.)
- 121 *Advanced Network Laboratory II* (2) Carley  
A continuation of Electrical Engineering 120. Prerequisite: Electrical Engineering 120. Laboratory fee, \$6. Afternoon and evening sections.
- 125-26 *Principles of Electric Power Transmission* (2-2) Akers  
Mechanical and electrical characteristics of transmission lines, approximate and rigorous solutions by means of hyperbolic functions, steady-state and elementary transient considerations, the more important phases of distribution of electrical energy. Prerequisite: Electrical Engineering 107. Evening.
- 133-34 *Alternating-Current Laboratory* (2-2) The Staff  
A continuation of Electrical Engineering 105-6, with experiments on alternating-current circuits, instruments, and machinery. Prerequisite: Electrical Engineering 106 and 108. Laboratory fee, \$6 a term. Afternoon and evening sections. (Also offered 1948 summer term.)



- 137 *Electric Traction (2)* Ames  
Theory and practice of modern direct- and alternating-current rail-ways. Prerequisite: Electrical Engineering 10. Evening.
- 138 *Industrial Electrical Power Applications (2)* Akers  
The characteristics of the various types of electrical motors and other power appliances and the principles governing their applications in industry. Prerequisite: Electrical Engineering 10 and junior standing. Evening.
- 139 *Illumination Engineering (2)* Antel  
Principles and practices in present-day illumination engineering. Pre-quisite: Electrical Engineering 10. Evening.
- 140 *Electrical Design (3)* Antel  
Principles of design, with reference to materials of construction and electrical equipment. Practical exercises are assigned in connection with classroom work. Prerequisite: Electrical Engineering 109. Morning and evening sections.
- 142 *Radio-wave Propagation (3)* Smith  
Theory of the radiation and propagation of the electromagnetic waves in space, with consideration of practical application to radio problems. Prerequisite: Electrical Engineering 119; Physics 133. Evening.
- 146 *Radio-wave Propagation Laboratory (2)* ———  
A laboratory course associated with Electrical Engineering 142. Evening.
- 148 *Applications of Electronic Devices (3)* Carley  
Practical applications of electronic devices such as power supplies, voltage regulators, multivibrators, electronic counters, and servo-mechanism. Prerequisite: Physics 133. Evening.
- 189-90 *Proseminar in Electrical Engineering* Ames, Akers  
(I-I)  
Prerequisite: Electrical Engineering 108. Late afternoon.



## ENGLISH

Robert Whitney Bolwell, Ph.D., *Professor of American Literature*  
Ernest Sewall Shepard, A.M., *Professor of English, Executive Officer*  
George Winchester Stone, Jr., Ph.D., *Professor of English*  
Fred Salisbury Tupper, Ph.D., *Professor of English*  
Calvin Darlington Linton, Ph.D., *Professor of English*  
Charles William Cole, Ph.D., *Associate Professor of American Literature*  
Averett Howard, A.M., *Assistant Professor of English*  
Muriel Hope McClanahan, Ph.D., *Assistant Professor of English*  
James Harold Coberly, A.M., *Assistant Professor of English*  
Martin Steele Day, Ph.D., *Assistant Professor of English*  
Louis Blair Teeter, Ph.D., *Assistant Professor of English*  
Phyllis Annette Nichols, A.M., *Assistant Professor of English*  
Vera Lillian Mowry, A.M., *Assistant Professor of English*  
John Palmer Reesing, Jr., A.M., *Assistant Professor of English*  
John Wilbur Watson, Jr., Ph.D., *Lecturer in English*  
Ruth Elsie Jones, A.B., *Instructor in English*  
Ruth Shryhock Nelson, A.M., *Instructor in English*  
Zietta Shriver Dillon, A.B., *Instructor in English*  
Carlton Brett, A.M., *Instructor in English*  
Mary Louise Benoit-Smullyan, A.M., *Instructor in English*  
Louise Eileen Pancake, A.M., *Instructor in English*  
Oscar Milton Villarejo, A.B., *Instructor in English*  
Pauline Angela De Brodes, A.M., *Associate in English*

*The major in English Literature (Field-of-Study).*—The coordinated knowledge which a student must exhibit in the major in English Literature, and upon which he will be examined at the end of his senior year, is summarized under four general headings: (1) the history of English literature from the Anglo-Saxon period; (2) the chief English writers (a certain familiarity with each man and his main works and a detailed knowledge of Shakespeare); (3) English social and political history as it bears upon or is reflected in the literature; (4) European intellectual backgrounds and movements which have affected English literature. It is advised that the student planning to major in English literature elect English 91-92 as his sophomore course. For details, see the pamphlet which is available in the Office of the Dean of Columbian College. Professors Stone and Tupper are advisers for the English Literature major.

*The major in American Thought and Civilization (Field-of-Study).*—For details, see the pamphlet which is available in the Office of the Dean of Columbian College and consult the adviser.

## FIRST GROUP

- A English Practice (3)** The Staff  
Instruction, drill, and exercises in grammar, vocabulary, spelling, and mechanics in general; instruction and exercises in composition and reading. This course is designed to prepare students for English 1. Morning and evening sections. (Also offered 1948 summer term.)
- B English for Foreign Students (3)** The Staff  
A course in reading and writing designed to prepare the student for English 1. Special attention is given to spelling, syntax, grammar, idiom, and vocabulary. Evening.
- 1-2 Freshman English\* (3-3)** The Staff  
Review of grammar, exercises in composition, readings. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)  
English 1x—same as English 1, but offered winter term. Morning, afternoon, and evening sections.  
English 2x—same as English 2, but offered fall term. Morning, afternoon, and evening sections.
- 9 Sophomore Composition (3)** The Staff  
A study of types of expository writing with weekly exercises. Prerequisite: English 1-2. Morning and evening sections. (Also offered 1948 summer term.)  
English 9x—same as English 9, but offered winter term. Morning.
- 10 The Short Story (3)** The Staff  
Some study of the technique of the short story and class criticism of student writing. Prerequisite: English 1-2. Morning and evening sections. (Also offered 1948 summer term.)  
English 10x—same as English 10, but offered fall term. Morning and evening sections.
- 51-52 Introduction to English Literature (3-3)** The Staff  
A historical survey. Prerequisite: English 1-2. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)  
English 51x—same as English 51, but offered winter term. Morning and evening sections.  
English 52x—same as English 52, but offered fall term. Morning and evening sections.
- 71-72 Introduction to American Literature (3-3)** The Staff  
A historical survey. First half: from the beginnings to the Civil War. Second half: from the Civil War to the present day. Prerequisite: English 1-2. Morning and evening sections. (Also offered 1948 summer term.)
- 91-92 Introduction to European Literature (3-3)** The Staff  
Consideration of various types. Prerequisite: English 1-2. Morning and evening sections. (Also offered 1948 summer term.)

\* Students registered in English 1 are tested in the minimum, essentials of standard usage, vocabulary, writing skill, and reading speed and comprehension. Those students who show marked superiority may be exempted from one or both terms of the Freshman English course; those who show deficiencies will be assigned to English A.

## SECOND GROUP

- 115 *The Writing of Fiction* (3) Howard  
Writing the short story. Evening.
- 116 *The Writing of Fiction* (3) Howard  
Writing a novel. Evening.
- 121-22 *English Literature from the Beginnings to 1500* (3-3) Stone  
Prerequisite: English 51-52, 71-72, or 91-92. Evening.
- 125 *The Evolution of Modern Speech* (3) Watson  
The development of the English language in a historical treatment of English grammar. Evening. (Also offered 1948 summer term.)
- 126 *The Appreciation of Literature* (3) Watson  
The study of the principles of criticism and their application to various literary types. Evening.
- 129-30 *Elizabethan Nondramatic Literature* (3-3) Tupper  
Nondramatic literature from 1485 to 1603. Prerequisite: English 51-52, 71-72, or 91-92. Morning. (Also offered 1948 summer term—English 129 (3).)
- 135-36 *Shakespeare* (3-3) Tupper  
Prerequisite: English 51-52, 71-72, or 91-92. Morning.
- 139-40 *The Seventeenth Century* (3-3) Linton  
First half, poetry and prose from 1603 to 1660; second half, Milton. Prerequisite: English 51-52, 71-72, or 91-92. Morning. (Also offered 1948 summer term—English 140 (3).)
- 141-42 *The Neoclassical Movement* (3-3) Teeter  
Poetry and prose from 1660 through the mid-eighteenth century. Prerequisite: English 51-52, 71-72, or 91-92. Afternoon. (Also offered 1948 summer term—English 142 (3).)
- 151-52 *The Romantic Movement* (3-3) Day  
From the mid-eighteenth century through Shelley and Keats. Prerequisite: English 51-52, 71-72, or 91-92. Evening. (Also offered 1948 summer term—English 152 (3).)
- 161-62 *Victorian Literature* (3-3) Shepard  
Poetry and prose from 1830 to 1900. Prerequisite: English 51-52, 71-72, or 91-92. Morning. (Also offered 1948 summer term—English 162 (3).)



- 165-66 *Contemporary British Literature* (3-3) Linton  
Poetry, prose, and drama since 1900. Prerequisite: English 51-52, 71-72, or 91-92. Afternoon. (Also offered 1948 summer term—English 165 (3).)
- 171-72 *Studies in American Literature* (3-3) Cole  
Major factors in the national cultural traditions as shown by outstanding writers. Prerequisite: English 51-52 or 71-72. Evening.
- 175x *The American Drama* (3) Coberly  
Reading and analysis of significant plays, from the beginnings to the present day. Morning. (Also offered 1948 summer term.)
- 176x *The American Novel* (3) Coberly  
Chronological development of fiction from the beginnings through the 1920's. Morning. (Also offered 1948 summer term.)
- 177-78 *Recent American Literature* (3-3) Bolwell  
Modern trends and significant writers of the 1930's and 1940's. First half: poetry and criticism. Second half: fiction and drama (including motion pictures). Morning. (Also offered 1948 summer term—English 178 (3).)
- 179-80 *Proseminar: Readings for American Thought and Civilization Major* (3-3) Bolwell  
Conferences and group discussions. Evening.
- 181 *The English Novel* (3) Teeter  
Major English novelists from Richardson to the Brontës. Morning.
- 182 *The English Novel* (3) McClanahan  
Major English novelists from Dickens to Woolf. Morning.
- 183-84 *The English Drama* (3-3) Tupper  
The first half is concerned principally with the drama of Shakespeare's contemporaries. The second half is a historical survey from 1660 to the present day. Morning. (Also offered 1948 summer term—English 183 (3).)
- 199-200 *Proseminar: Reading for the English Literature Major* (3-3) Stone, Tupper, Linton  
Conferences and group discussions. Afternoon and evening sections.

## THIRD GROUP

- 201-2 *Methods and Materials in Elizabethan Research* (3-3)  
Open only to the graduate student. Admission by permission of the instructor. (Not offered in 1948-49.)
- 222 *The Age of Chaucer* (3) Stone  
Summer term 1948.



- 223-24 *Old English* (3-3) Stone  
English language and literature before 1100. (Not offered in 1948-49.)
- 235-36 *Studies in Shakespeare and His Contemporaries* (3-3) Tupper  
Prerequisite: English 135-36. Evening.
- 239-40 *Studies in the Seventeenth Century* (3-3) Linton  
Prerequisite: English 139-40. (Not offered in 1948-49.)
- 241-42 *Studies in Neoclassical Literature* (3-3) Teeter  
Prerequisite: English 141-42. Evening.
- 244 *Studies in Eighteenth Century Drama* (3) Stone  
Prerequisite: English 183-84. (Not offered in 1948-49.)
- 251-52 *Studies in the Romantic Movement* (3-3)  
Prerequisite: English 151-52. (Not offered in 1948-49.)
- 261-62 *Studies in Victorian Literature* (3-3) Shepard  
Prerequisite: English 161-62. Evening.
- 271-72 *Seminar: American Literature* (3-3) Bolwell  
Prerequisite: English 171-72 or the equivalent. Evening.
- 295-96 *History of English Literary Criticism* (3-3)  
Open to the undergraduate with the approval of the instructor. (Not offered in 1948-49.)
- 299-300 *Thesis* (3-3) The Staff

## RELATED COURSES IN OTHER DEPARTMENTS

Education 136, *Teaching of English*  
German 207-8, *Old English*  
German 221, *Introduction to Linguistics*

## GEOGRAPHY

Robert Dale Campbell, A.M., *Associate Professor of Geography, Executive Officer*

William Franklin Jewell, M.S., *Assistant Professor of Geography*

William Adriance Withington, A.M., *Instructor in Geography*

*The major in Geography (Departmental).*—Prerequisite: Geography 51 and 52. Required: twenty-four credit hours of Geography (which must include Geography 103-4 and 113-14) beyond first group courses; fifteen credit hours in one or more of the following departments: Botany, Geology, Sociology, Economics, History, or Political Science. Strongly recommended: Botany 1 and 2; Economics 1-2; and Civil Engineering 2.

### FIRST GROUP

- 51 *Introduction to Geography* (3) Campbell  
A study of geography as human ecology; an analysis of the physical and cultural environments, and of the relationships that exist between these environments and man. Morning and evening sections.
- 52 *Introduction to Earth Sciences* (3) Campbell  
An introduction to the sciences dealing with the physical earth, the lithosphere, the hydrosphere, and the atmosphere—with special emphasis upon those elements which most directly affect man's adjustment to his physical environment. Morning and evening sections.

### SECOND GROUP

- 103-4 *Cartography* (3-3) Jewell  
Principles of cartographic drafting; map projections; map and chart plotting, design, and construction; uses of maps. Prerequisite: Geography 51 and 52. Lecture and laboratory (4 hours). Morning.
- 113 *Geomorphology* (2) Jewell  
The nature and evolution of earth forms, with special emphasis upon relief features of North America. Prerequisite: Geography 52. Lecture (2 hours); laboratory or field trip (2 to 4 hours). Evening.
- 114 *Weather and Climate* (2) Jewell  
Elementary atmospheric physics, air mass and frontal weather analysis, regional climatology. Prerequisite: Geography 52. Evening.
- 122 *Political Geography* (3) Withington  
The effect of geographic factors upon the structure and growth of states and upon the relations between the states. Prerequisite: Geography 51. Afternoon.  
Geography 122x—same as Geography 122, but offered fall term. Morning.

- 123 *Economic Geography* (3) Withington  
A study of man's economic activities as adjustments to the physical and cultural environments. Prerequisite: Geography 51. Afternoon.  
Geography 123x—same as Geography 123, but offered winter term. Morning.

- 132 *Land Utilization* (3) Jewell  
Principles of utilization of urban and rural land; regional and city planning. Occasional field trips and field problems. Prerequisite: Geography 51 and 52. Afternoon.

- 161 *Geography of Soils* (3) Jewell  
The physical nature, development, and world distribution of soils; soils and land use; current and future soils problems. Occasional field trips and field problems. Prerequisite: Geography 51 and 52. Afternoon.

- 171-72 *Field Geography* (3-3) Jewell  
Field study methods; field analysis of local geographic adjustments, both urban and rural. Prerequisite: Geography 51 and 52. Lecture and field trip (6 hours). Afternoon.

- 181 *Anglo-America*\* (3) Withington  
Afternoon.

- 182 *Historical Geography of North America*\* (3) Withington  
Afternoon.

- 183 *Northwest Europe*\* (3) Withington  
Evening.

- 184 *Mediterranean Region*\* (3) Withington  
Evening.

- 187 *Africa*\* (3)  
(Not offered in 1948-49.)

### THIRD GROUP ‡

- 201-2 *Seminar: History and Philosophy of Geography* (3-3) Campbell  
Time to be arranged.

- 215 *Seminar: Geographic Factors in Foreign Policy* (3) Koenig  
The resources, people, and geo-political problems of selected nations and regions. The subject for 1948-49 is the United States. Time to be arranged. (Also offered 1948 summer term, as Geography 271.)

\* Regional geographic survey.

‡ Senior major or graduate status is required or registration in any third-year courses.

**231-32 Seminar in Geography (3)**

Subjects of immediate interest for students of Geography and to professional geographers in the Washington area. Time to be arranged.

**295-96 Research (3-3)**

The Staff

Special field or library studies in either systematic or regional geography. Time to be arranged.

**299-300 Thesis (3-3)**

The Staff



## GEOLOGY

\_\_\_\_\_, *Associate Professor of Geology*

\_\_\_\_\_, *Instructor in Geology*

*Minimum requirements for the major (Departmental).—Twenty-four credit hours of geology beyond the first-group courses.*

### FIRST GROUP

5 *Field Geology* (6)

Field trips to neighboring localities of geological interest, with classroom study. (Not offered in 1948-49.)

21-22 *Physical and Historical Geology* (3-3)

Survey course covering the principles of physiography, geology, and mineralogy. (Not offered in 1948-49.)

### SECOND GROUP

121-22 *Paleontology* (3-3)

Lectures and laboratory work on classification and structure of fossil invertebrates, vertebrates, and plants, including their use as guide fossils in stratigraphic geology. (Not offered in 1948-49.)

123-24 *Regional Geology of North and South America* (3-3)

Lectures and map work on the physiographic regions of the Western Hemisphere, stressing the relationship between geology and geography and culture. (Not offered in 1948-49.)

125-26 *Regional Geology of the Eastern Hemisphere* (3-3)

Alternating with Geology 123-24 and with it completing a survey of the world. (Not offered in 1948-49.)

### THIRD GROUP

215-16 *Seminar* (3-3)

Detailed study and presentation by the class and instructor of some phase of geology with review of current literature. (Not offered in 1948-49.)

227-28 *Research*

Original work on individual problems, including a digest of the published record. (Not offered in 1948-49.)

299-300 *Thesis* (3-3)

(Not offered in 1948-49.)

## GERMANIC LANGUAGES AND LITERATURES

Edward Henry Sehrt, Ph.D., *Professor of German, Executive Officer*  
 Gretchen Louisa Rogers, Ph.D., *Associate Professor of German*  
 Wolfram Karl Legner, Ph.D., *Associate Professor of German*  
 Walter Julius Mueller, Ph.D., *Lecturer in German*  
 Nicholas Trephon Cokenias, A.M., *Associate in German*

*Minimum requirements for the major in Germanic Languages and Literatures (Departmental).—Twenty-four credit hours of German beyond first group courses.*

### FIRST GROUP

- †1-2 *First-year German (3-3)* Rogers, Legner, and Staff  
 The essentials of German grammar; translation of easy prose. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)  
     German 1x—same as German 1, but offered winter term. Morning.  
     German 2x—same as German 2, but offered fall term. Morning.
- †3-4 *Second-year German (3-3)* Rogers, Legner, and Staff  
 Selections from modern German prose; review of grammar. Pre-requisite: German 1-2 or two years of high school German. Morning and evening sections. (Also offered 1948 summer term.)  
     German 3x—same as German 3, but offered winter term. Morning.  
     German 4x—same as German 4, but offered fall term. Morning.

### SECOND GROUP

- †101-2 *Rapid Readings in Modern German Prose (2-2)* Rogers, Legner  
 Morning and evening sections.
- †103-4 *Goethe's "Faust" (3-3)* Sehrt  
 Morning.
- †105-6 *German Classicism (3-3)* Sehrt  
 Particularly the works of Goethe and Schiller. (Not offered in 1948-49.)
- †107-8 *Advanced Prose Composition (1-1)* Rogers, Legner  
 Morning and evening sections.
- 109-10 *German Drama since 1800 (3-3)* Sehrt  
 Dramas of Kleist, Grillparzer, Hebbel, and Hauptmann. Time to be arranged.
- †111-12 *The German Romantic Movement (3-3)* Sehrt  
 (Not offered in 1948-49.)

- †115-16 *Survey of German Literature from the Ninth to the Nineteenth Century* (3-3) Legner  
Time to be arranged.
- †117-18 *Survey of German Literature of the Nineteenth and Twentieth Centuries* (3-3) Rogers, Legner  
(Not offered in 1948-49.)
- †121-22 *Conversation and Composition* (3-3) Rogers, Mueller  
Prerequisite: German 3-4 or the equivalent. Morning and evening sections.
- †123-24 *The German "Novelle und Roman"* (3-3) Rogers  
Evening.
- †125-26 *The German Lyric* (3-3) Legner  
Evening.

## THIRD GROUP

- †201-2 *Middle High German* (3-3) Sehrt  
(Not offered in 1948-49.)
- †205-6 *Gothic* (3-3) Sehrt  
Introduction to the comparative study of the Germanic languages.  
(Not offered in 1948-49.)
- 207-8 *Old English* (3-3) Sehrt  
Morning.
- †209-10 *Old High German* (3-3) Sehrt  
(Not offered in 1948-49.)
- 213-14 *Old Norse* (3-3) Sehrt  
Evening.
- †219-20 *Comparative Germanic Grammar* (3-3) Sehrt  
Evening.
- 221 *Introduction to Linguistics* (3) Sehrt  
Linguistics and comparative philology. Admission by permission of the instructor. Evening.
- 222 *Indo-European Languages* (3) Sehrt  
Application of the laws of sound change in language; origin and development of suffixes and inflections; syntax. Evening.
- †223-24 *Sanskrit* (3-3) Sehrt  
Introduction to comparative Indo-European grammar. (Not offered in 1948-49.)
- 299-300 *Thesis* (3-3) The Staff

## HEALTH ADMINISTRATION

Daniel LeRay Borden, A.M., M.D., *University Surgeon, Director*  
Luther Sheldon, M.D., *University Physician*

Elizabeth Kahler, A.M., M.D., *Associate University Physician*

Robert Howe Harmon, A.B., M.D., *Associate University Physician*

Ronald Atmore Cox, A.B., M.D., *Associate University Physician (Eye)*

Richard Bernard Castell, A.B., M.D., *Associate University Physician*

Alfred Brigulio, M.D., *Associate University Physician*

David Davis, A.B., M.D., *Associate University Physician (Nose and Throat)*

The University maintains health services hereinafter described. Through student reports and those of University officials, the University attempts to keep informed as to all cases of illness among its students. This service is primarily diagnostic in its intent. It also provides first aid in the event of an emergency.

Medical privileges include: (1) the physical examination of every student entering from secondary school;\* (2) three visits by the University physician or surgeon, office or residence (District of Columbia) in any one illness, exclusive of a specialist, surgical operation, laboratory, or X-ray examination; (3) hospitalization, including board and nursing, in the University Hospital for not more than one week during a school year—the necessity to be determined by the Director of Health Administration. The duration of hospitalization period (maximum, one week) is also to be determined by the Director of Health Administration.

This medical benefit does not apply to illness or disability incurred previous to the University term or prior to payment of the University registration fee.

The student is allowed, if he so desires, to engage physicians and nurses of his own choice, but when he does so he will be responsible for the fees charged.

Rules: (1) The Director of Health Administration is empowered to limit or deny the medical benefits where, in his discretion, a student has, by his misconduct or breach of the rules of the University, made himself ineligible; (2) the Director of Health Administration has authority to determine the necessity and length of hospitalization; (3) a student who has severed his connection with the University is ineligible for medical benefits; (4) a student intending to train for an athletic team is required to pass a thorough examination at the beginning of each term; (5) the above regulations apply also during the summer term of the University.

The University is not responsible for injuries received in inter-collegiate or intra-mural games, or in any of the activities of the physical education departments.

\* A charge of \$2 is made by the University if a student fails to appear for a physical examination during the period set for this purpose.



## HISTORY

Elmer Louis Kayser, Ph.D., LL.D., *Professor of European History*

Lowell Ragatz, Ph.D., *Professor of European History*

Alva Curtis Wilgus, Ph.D., *Professor of Latin American History*

Wood Gray, Ph.D., *Professor of American History, Executive Officer*

\*Howard Maxwell Merriman, Ph.D., *Professor of American Diplomatic History*

Myron Law Koenig, Ph.D., *Professor of American History*

H. F. Arthur Schoenfeld, A.M., *Professorial Lecturer on European Diplomatic History*

Roderic Hollett Davison, Ph.D., *Assistant Professor of European History*

Ronald Bettes Thompson, A.B., *Assistant Professor of European History*

Stetson Conn, Ph.D., *Lecturer on American Diplomatic History*

*The major in History (Field-of-Study).*—Prerequisite: History 39-40 and 71-72. The major indicates a knowledge of four fields of history selected from the following list, attested by major examinations: (1) the literature and method of history (required); (2) backgrounds of the modern world, to 1789; (3) modern and contemporary Europe; (4) diplomacy; (5) oversea expansion; (6) the United States; (7) Latin America. A six-hour research seminar, exclusive of History 109-200, is a required part of each major's program to give training in fundamental techniques. For details of courses and readings offering preparation for the major examinations, see the pamphlet on this subject, which is available in the Office of the Dean of Columbian College, or consult the adviser.

### FIRST GROUP

39-40 *The Development of European Civilization* (3-3)

Kayser, Davison,  
Thompson

Primarily for freshmen. Fall term: the political, social, economic, and cultural history of the Old World from ancient times to 1500. Winter term: from 1500 to the present. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)

71-72 *The Development of American Civilization* (3-3)

Koenig

Primarily for sophomores. Fall term: the political, social, economic, and cultural forces of the United States in their world setting from 1492 to 1865. Winter term: from 1865 to the present. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)

### SECOND GROUP ‡

109-110 *The Civilization of the Ancient World* (3-3)

Kayser

Fall term: the culture of Ancient Greece to the end of the Hellenistic period. Winter term: Roman culture from its beginnings to the fall of the Empire in the West. Morning.

\* On sabbatical leave 1948-49.

‡ For each course in the second group, the appropriate course in the first group is prerequisite.

- 119 *Intellectual History of Europe During the Middle Ages* (3) Kayser  
A historical survey of the culture of Western Europe from the fall of the Roman Empire to the end of the thirteenth century. (Not offered in 1948-49.)
- 120 *Intellectual Aspects of the Renaissance and the Reformation* (3) Kayser  
Aspects of the development of the modern mind approached through a study of the lives and contributions of outstanding personalities of the period. (Not offered in 1948-49.)
- 130 *Nationalism* (3) Kayser  
The historical evolution of modern nationalism.  
Summer term 1948.
- 138 *Early European Colonial Empires* (3) Ragatz  
Old World expansion in America, Africa, and Asia from 1450 to 1825. Morning.
- 139-40 *Modern Imperialism* (3-3) Ragatz  
Fall term: Africa and Europe in the nineteenth and twentieth centuries. Winter term: Asia and the Pacific Basin in the nineteenth and twentieth centuries. Afternoon and evening sections. (Also offered 1948 summer term—History 142, equivalent to History 140.)
- 145-46 *Russian History* (3-3) Thompson  
Main currents in economic, social, and political developments and world relations. Fall term: from the rise of the Kievan state to the Revolution of 1917. Winter term: the Soviet period. Morning and evening sections.
- 147 *Economic History of Europe* (3) Ragatz  
A survey from ancient times to the present day. Morning. (Also offered 1948 summer term.)
- 149-50 *European Diplomatic History* (3-3) Davison  
Background of the European state system and of diplomatic practices and relations since the Congress of Vienna, with emphasis on the policies and actions of the great powers and their statesmen. Fall term: to 1871; winter term: since 1871. Morning and evening sections.
- 151-52 *English History* (3-3)  
A general survey course. Morning.
- 161-62 *Latin American History* (3-3) Wilgus  
Development of political, economic, social, and institutional affairs of the Ibero-American colonies (fall term) and the period since independence (winter term). Afternoon. (Also offered 1948 summer term.)  
History 161x—same as History 161, but offered winter term. Evening.  
History 162x—same as History 162, but offered fall term. Evening.

- 163-64 *Current Latin American Problems* (3-3) Wilgus  
Evening.
- 171-72 *Social History of the United States* (3-3) Gray  
Daily life, institutions, intellectual and artistic achievements. Fall term: the Agrarian Era, 1607-1861. Winter term: the Urban-Industrial Era, 1861 to the present time. Morning and evening sections.
- 173 *Representative Americans* (3) Gray  
A biographical approach to national history. Some fifty significant and pivotal personalities in the development of the United States in government, business, science, religion, journalism, the arts, and social reform. Morning. (Also offered 1948 summer term as History 175x.)
- 174 *Economic History of the United States* (3) Gray  
Main trends in the development of American agriculture, industry, and trade since 1607, with emphasis on tendencies and problems since the Civil War. Morning. (Also offered 1948 summer term.)
- 181-82 *Diplomatic History of the United States* (3-3) Conn  
Tendencies toward isolation, expansion, and collectivism; disputes with foreign countries and their settlement; and the activities of the American secretaries of state and diplomatic agents. Fall term: to the Civil War; winter term: since the Civil War. Morning and evening sections. (Also offered 1948 summer term.)
- 183 *Overseas Expansion of the United States* (3) Merriman  
The political, economic, social, and cultural life of our outlying possessions. (Not offered in 1948-49.)
- 185 *Canada and the United States* (3) Merriman  
The historical background and main trends in the relationship of the two English-speaking peoples of North America. (Not offered in 1948-49.)
- 191-92 *Current History* (1-1) Kayser  
Contemporary events in their world setting. Afternoon.
- 199-200 *Proseminar: The Literature and Method of History* (3-3) The Staff  
Limited to majors in history. Fall term: history and historians. Winter term: supervised reading in preparation for the major examinations. Evening. (Also offered 1948 summer term.)

## THIRD GROUP \*

- 237-38 *Reading Course in European Expansion* (3-3) Ragatz  
Primarily for graduate students. Time to be arranged.

\* Approval of the instructor is required for registration in each third group course.



- |        |   |            |
|--------|---|------------|
| 239-40 | <i>Seminar in the Expansion of European Civilization (3-3)</i><br>Evening. (Also offered 1948 summer term.)                         | Ragatz     |
| 241-42 | <i>Conference Seminar in Recent European Diplomatic History (3-3)</i><br>Evening.   | Schoenfeld |
| 243-44 | <i>Reading Course in Modern European History (3-3)</i><br>Primarily for graduate students. Time to be arranged.                     | Davison    |
| 245-46 | <i>Seminar in Russian History (3-3)</i><br>Evening.   | Thompson   |
| 247-48 | <i>Reading Course in Russian History (3-3)</i><br>Primarily for graduate students. Time to be arranged.                             | Thompson   |
| 249-50 | <i>Seminar in European Diplomatic History (3-3)</i><br>Afternoon.   | Davison    |
| 261-62 | <i>Seminar in Latin American History (3-3)</i><br>Evening.  | Wilgus     |
| 265-66 | <i>Reading Course in Latin American History (3-3)</i><br>Primarily for graduate students. Time to be arranged.                      | Wilgus     |
| 271-72 | <i>Seminar in the Social History of the United States (3-3)</i><br>Afternoon. (Also offered 1948 summer term—History 272 (3).)      | Gray       |
| 275-76 | <i>Seminar in American Political and Constitutional History (3-3)</i><br>Evening.   | _____      |
| 277-78 | <i>Reading Course in British and American Constitutional History (3-3)</i><br>Primarily for graduate students. Time to be arranged. | _____      |
| 281-82 | <i>Seminar in the Diplomatic History of the United States (3-3)</i><br>Evening. (Also offered 1948 summer term—History 281 (3).)    | Conn       |
| 285-86 | <i>Reading Course in the Diplomatic History of the United States (3-3)</i><br>(Not offered in 1948-49.)                             | Merriman   |



- 287 *Seminar on the Development of the Foreign Policy of the United States* (3) Schoenfeld  
Evening.
- 291-92 *Seminar* (3-3) The Staff  
Prerequisite: approval of the Department. Time to be arranged.  
(Also offered 1948 summer term.)
- 299-300 *Thesis* (3-3) The Staff  
Required of all candidates for the Master's degree specializing in history. Time to be arranged. (Also offered 1948 summer term.)

## HOME ECONOMICS

Frances Kirkpatrick, A.M., *Professor of Home Economics, Executive Officer*

Kathryn Mildred Towne, A.M., *Associate Professor of Home Economics*

Margaret Olive Osborn, M.S., *Assistant Professor of Home Economics*

*Minimum requirements for the degree.—See pages 126-27, 128.*

### FIRST GROUP

- 1 *Food Selection and Preparation* (3)
The Staff

Composition, selection, and preparation of food; analysis of recipes; standard products; planning, preparing, serving, and estimating the cost of meals. Material fee, \$12.50. Morning and afternoon sections.  
Home Economics 1x—same as Home Economics 1, but offered winter term. Evening.
- 22 *Clothing: Its Selection, Cost, and Care* (3)
Towne

Clothing selection—the economic, aesthetic, and hygienic aspects; the application of the principles of color and design to individual selection; the care of clothing. Morning.
- 51 *Family Meals* (3)
Osborn

The choice, purchase, preparation, and service of foods; dietary standards, food habits, and the nutritional needs of the family; problems of purchasing, care, and use of food by the consumer. Material fee, \$7.50. Lecture (2 hours), laboratory (3 hours)—morning.
- 53 *Family Health and Household Sanitation* (3)
Kirkpatrick

Home hygiene and home care of the sick; the principles of household sanitation in relation to health and diseases. Material fee, \$4. Morning.
- 55x *Nutrition and Its Relation to Health* (3)
Kirkpatrick

Open to men and women. A course in nutrition for students not majoring in Home Economics. Morning.
- 62 *Clothing Construction* (3)
Towne

Techniques of construction suitable for cotton, wool, and rayon fabrics; the use of commercial patterns and their alteration; the proper selection of color, design, and fabric. Material fee, \$4. Morning and afternoon sections.  
Home Economics 62x—same as Home Economics 62, but offered fall term. Evening.
- 71 *Costume Design and Fashion Economics* (3)
Towne

Factors determining fashions and effect on cost of clothing; problems of the consumer of textiles and clothing; historic costume and its relation to modern dress. Material fee, \$3. Afternoon.

- 72 *Household Textiles* (3) Towne  
Properties, uses, and tests of the different textile fibers and fabrics, and development of judgment and knowledge of standard for the consumer of clothing and house-furnishing material. Material fee, \$3. Evening.
- 77x *Marketing* (3) Osborn  
Purchasing of foods as it relates to the home and to the institution. Morning.

## SECOND GROUP

- 102 *Advanced Food Preparation* (3) Kirkpatrick  
The application of the fundamental processes of food preparation to a wider range of food materials and various services for different occasions. Material fee, \$12.50. Morning.  
Home Economics 102x—same as Home Economics 102, but offered fall term. Evening.
- 106 *Quantity Cookery* (3) The Staff  
Morning.
- 123 *Household Finance and Problems of the Consumer* (3) Towne  
Economic problems of the family in modern industrial society; family income; income apportionment and household expenditures; laws affecting the home; investments; consumer buying. Morning.
- 143x *Advanced Clothing Construction* (3) Towne  
Problems of clothing construction, including renovation, flat pattern designing. Material fee, \$4. (Not offered in 1948-49.)
- 148x *Food Problems* (3) Kirkpatrick  
Factors affecting the preparation of standard products from the experimental viewpoint; principles of food demonstrations. Material fee, \$12.50. (Not offered in 1948-49.)
- 152x *Nutrition* (3) Kirkpatrick, Osborn  
Lecture course on the principles of normal and abnormal human nutrition. Laboratory work on the calculation and preparation of dietaries. Laboratory fee, \$3. Afternoon.
- 154x *Diet Therapy* (3) Osborn  
Study of nutrition as applied to diet and disease. Evening.
- 164 *Child Nutrition* (3) Kirkpatrick  
Basic principles in nutrition and growth of the infant, pre-school, and adolescent child in health and disease. Evening.
- 168 *Institutional Management* (2) Osborn  
Study of the organization, equipment, and marketing problems of institutions. Afternoon.

- 171 *House Furnishing* (3) Towne  
Home planning from the historic, artistic, economic, and sanitary viewpoints; home furnishings such as linens, dishes, floor covering, mattresses, etc. Material fee, \$3. Morning.
- 181x *The Child in the Home* (3) Kirkpatrick  
Care and development of children; parent-child relationships. Afternoon.
- 192 *The Home, Its Management and Equipment* (3) Kirkpatrick  
Economical management of the home; distribution of time and energy; problems in the selection, arrangement, and care of equipment. Afternoon.
- 193 *Supervision of Home Management* (3) The Staff  
Field work under supervision. Designed to meet requirements of those preparing to teach in federally-aided schools. Time to be arranged.
- 195-96 *Special Problems* (3-3) The Staff  
Individual investigation or study under the guidance of a member of the staff. Suggested problems are: home economics education, marketing, tailoring, and draping. Program and conferences arranged with an instructor.
- 197-98 *Proseminar* (3-3) The Staff  
The study of the most recent materials and problems in the various phases of home economics. Evening.



## JOURNALISM

Elbridge Colby, Ph.D., *Associate Professor of Journalism, Executive Officer*

Philip Hampton Love, *Lecturer in Journalism*

Joseph Marshall Mathias, A.B., LL.B., *Lecturer in Journalism*

Edwin De Frees Neff, M.S., *Lecturer in Journalism*

### FIRST GROUP

- 1-2 *Journalism Survey* (3-3) Colby  
History of journalism; survey of character and content of leading newspapers to develop intelligent reading necessary for future work in journalism. Practice in news writing. Prerequisite: English 1-2 or the equivalent. Morning and evening sections.

### SECOND GROUP

- 111-12 *Reporting* (3-3) Love, Mathias  
Techniques of newspaper reporting and copy reading; instruction and practice in modern methods of gathering and presenting news. Prerequisite: English 1-2 and permission of the instructor. Laboratory fee, \$3 a term. Morning and evening sections.
- 113-14 *Reporting of National and International Affairs* (3-3)  
Training in the coverage and presentation of national and international news; special consideration of the qualifications necessary for Washington correspondence and press-association reporting. Prerequisite: Journalism 111-12 or the equivalent. Laboratory fee, \$3 a term. (Not offered in 1948-49.)
- 121-22 *Feature Writing* (3-3) Neff  
Instruction and practice in writing of special newspaper and magazine articles for sale, material for which is obtained through interviews and independent investigation. Prerequisite: Journalism 1-2, 111-12, or the equivalent. Morning.
- 151-52 *Editorial Writing* (3-3) Colby  
Current events from the standpoint of editorial interpretation; instruction and practice in the writing of editorials, and columns on public affairs. Prerequisite: Journalism 111-12 or the equivalent. Morning and evening sections.

## LAW

William Cabell Van Vleck, A.B., LL.B., S.J.D., *Professor of Law*  
 Charles Sager Collier, A.B., LL.B., S.J.D., *Professor of Law*  
 William Thomas Fryer, A.B., LL.B., J.D., *Professor of Law*  
 Saul Chesterfield Oppenheim, A.M., J.D., S.J.D., *Professor of Law*

### *Executive Officer*

Carville Dickinson Benson, A.B., LL.B., S.J.D., *Professor of Law*  
 James Forrester Davison, A.B., LL.M., S.J.D., *Professor of Law*  
 James Oliver Murdock, Ph.B., LL.B., *Professor of Law*  
 Levi Russell Alden, A.M., LL.B., *Adjunct Professor of Law*  
 George Bowdoin Craighill, A.B., LL.B., *Adjunct Professor of Law*  
 James Ward Morris, A.B., *Adjunct Professor of Law*  
 James Robert Kirkland, A.B., LL.M., *Adjunct Professor of Law*  
 Bolitha James Laws, LL.M., *Adjunct Professor of Law*  
 Frank Hammett Myers, LL.M., *Adjunct Professor of Law*  
 Conder Caywood Henry, A.B., LL.B., *Adjunct Professor of Law*  
 Elliott DeJarnette Marshall, LL.B., *Adjunct Professor of Law*  
 John Albert McIntire, A.B., LL.B., *Professorial Lecturer in Law*  
 William Randall Compton, M.B.A., LL.B., J.S.D., *Professorial Lecturer in Law*

Justin Lincoln Edgerton, A.B., LL.B., *Professorial Lecturer in Law*  
*Clerk of the Moot Court*

Charles Sylvanus Rhyne, LL.B., *Professorial Lecturer in Law*  
 Karl Rhorer Price, A.B., LL.B., *Professorial Lecturer in Law*  
 Harryman Dorsey, A.B., LL.B., *Associate Professor of Law*  
 Robert McKinney Cooper, Ph.M., J.D., *Associate Professor of Law*  
 Leroy Sorenson Merrifield, A.B., LL.B., M.P.A., *Assistant Professor of Law*

August Gottlieb Eckhardt, A.B., LL.M., *Assistant Professor of Law*  
 William Leigh Ellis, A.B., LL.M., *Lecturer in Law*

102 *Agency* (4) Cooper, ———  
 Problems of agency in the conduct of business. Seavey, Cases on Agency. Morning and evening sections.

112 *Contracts* (4) Merrifield, ———  
 Promissory obligation: offer and acceptance, consideration, statute of frauds, formal instruments, rights of third parties, assignments, and joint obligation, conditions, performance, discharge. Casebook to be announced. Morning and evening sections.  
 Summer term 1948.

123 *Criminal Law and Procedure* (4) Murdock, Cooper  
 Elements of criminal liability; specific crimes; combinations of persons in crime: criminal procedure. Harbo, Cases and Materials on Criminal Law and Procedure, 2d ed. Morning and evening sections.  
 Summer term 1948.

- 129 *Judicial Process I* (2) Fryer, Benson, Merrifield  
Introduction to the study of law, providing training in the method and technique of case-law followed by practice in use of law books and legal writing. Attention is given to language in law, especially ability of legal concepts, and the use of precedent. The course also covers a background on development of the English and American legal systems, and treats organization of the judiciary and members of the bar, with emphasis on problems of legal ethics. Casebook to be announced. Morning and evening sections.
- 130 *Judicial Process II* (2) Fryer, Benson, Dorsey  
A continuation of *Judicial Process I*. Introduction to the study of procedural law by examination of basic conceptions of law relating to pleading and practice. Problems raised by motions at trial and the scope of appeal. Casebook to be announced. Morning and evening sections.
- 133 *Property I* (4) Fryer, Dorsey, Eckhardt  
Concepts of property, possession and ownership; legal relations with respect to chattels and documentary intangibles created by gift, sale, pledge, lien, bailment, etc. Fraser, *Cases on Property*, Vol. II, 2d ed.; Fryer, *Readings on Personal Property*, 3d ed. Morning and evening sections.  
Summer term 1948
- 138 *Property II* (4) Benson, Eckhardt  
Real property; introduction; estates, seisin, landlord and tenant; future interests at common law and under the statutes of uses and wills; merger; elementary study of remoteness and powers; adverse possession; prescription; natural rights. Fraser, *Cases on Property*, Vol. I and II, 2d ed. Morning and evening sections.
- 141 *Torts* (4) Van Vleck, Merrifield  
Civil liability for harms to legally protected interests. Thurston and Seavey, *Cases on Torts*. Morning and evening sections.
- 205 *Civil Procedure* (4)  
Function and composition of pleadings, including their relation to proof. Emphasis is upon reforms, as exemplified by modern code provisions and the Federal Rules of Civil Procedure. Clark, *Cases on Pleading and Procedure*, 2d ed. Morning and evening sections.
- 214 *Constitutional Law* (4) Collier  
Historical introduction; judicial approach and methods; doctrine of the separation of powers; powers of the National Government; the federal system; relation of the state courts and the federal courts. Dodd, *Cases on Constitutional Law*, 3d ed. Morning and evening sections.  
Summer term 1948.
- 223 *Domestic Relations* (2) Compton  
Marriage, annulment, and divorce; rights of husband and wife; rights of parent and child; infants; conflict of laws involving problems of marriage evasion and migratory divorce. Madden and Compton, *Cases on Domestic Relations*. (Not offered in 1948-49.)  
Summer term 1948.



231 *Equity* (4)

Specific performance of contracts; equitable conversion; statute of frauds; mutuality; conditions; defenses; equitable servitudes; powers of an equity court; effect of decrees, interpleader, bills of peace, cloud on title, rescission and reformation, mistake. Chafee and Simpson, *Cases on Equity*. Morning and evening sections.

234 *Evidence* (4)

Fryer

Functions of court and jury; witnesses; hearsay, opinion, and circumstantial evidence; proof of authenticity and contents of writings. McCormick, *Cases on Evidence*, 2d ed. Morning and evening sections.

Summer term 1948.

238 *International Law* (4)

Murdock

Customary and treaty rights and duties of states; diplomatic and consular agents; treaty interpretation; nationality laws; international courts; claims procedure; war; neutrality. Hudson, *Cases on International Law*, 2d ed. Morning and evening sections.

246 *Negotiable Instruments* (4)

Bills of exchange, promissory notes and checks, especially under the Negotiable Instruments Law. Morning and evening sections.

Summer term 1948.

248 *Property III* (2)

Benson, Eckhardt

Conveyances, rents, easements, profits, licenses, covenants running with the land, and recording. Kirkwood, *Cases on Conveyances*, 2d ed. Morning and evening sections.

Summer term 1948.

251 *Restitution* (4)

Legal remedies for restitution of benefits obtained or conferred by performance of contract, misrepresentation, mistake, and coercion. (Not offered in 1948-49.)

Summer term 1948.

253 *Trade Regulation I—Unfair Trade Practices* (4)

Oppenheim

Unfair trade practices at common law and under state and federal statutes. Trade-marks and trade names, including Trade Mark Act of 1946. Misappropriation. False advertising at common law. Federal Trade Commission jurisdiction over misrepresentation practices. Lotteries and premiums. Disparagement of competitor's goods and business methods. State Fair Trade Acts (resale price maintenance). Price discrimination (State and Federal Robinson-Patman Act). State statutes prohibiting sales below cost. Inducing breach of contract. Commercial bribery. Miscellaneous business torts constituting unprivileged interferences with advantageous business relations. Oppenheim, *Cases on Unfair Competition*. Morning and evening sections.



- 254 *Wills* (2) Benson, Eckhardt  
Formation and revocation of wills; testate and intestate succession. Mchlen and Atkinson, *Cases on Wills and Administration*, 3d ed. Morning and evening sections.  
Summer term 1948.
- 256 *Sales* (2)  
Common law, Uniform Sales Act and related statutes. Intention to transfer of property interest (specific, unascertained, and future goods); specification and appropriation; cash and conditional sales; C.O.D., F.O.B., and C.I.F. shipments; negotiable bills of lading and warehouse receipts; trust receipts; fraud on seller, retention of possession and bulk sales; remedies of seller and buyer, including suit for price, stoppage in transit, seller's warranties; inspection. Casebook to be announced. Morning and evening sections.  
Summer term 1948.
- 303 *Administrative Law* (4) Davison  
Legislative setting for administrative bodies; judicial control of administrative action, public utilities, taxation, alien laws. Federal Trade Commission, workmen's compensation, etc. Katz, *Cases on Administrative Law*. Morning and evening sections.
- 312 *Business Associations* (4) Davison, Compton  
Forms of business associations; legal requirements as to contributions of capital; powers and rights of corporations, corporate officials, and shareholders. Casebook to be announced. Morning and evening sections.  
Summer term 1948.
- 315 *Conflict of Laws* (4) Van Vleck  
Study of cases involving foreign elements; principles of jurisdiction and limitations upon its exercise; procedure, torts, workmen's compensation, contracts, property, family law, administration of estates, business associations. Cheatham, Dowling, Goodrich, and Griswold, *Cases on Conflict of Laws*, 2d ed. Morning and evening sections.  
Summer term 1948.
- 317 *Creditors' Rights* (4)  
This course deals with remedies of unsecured creditors. The topics considered include judgments, fraudulent conveyances, creditors' agreements, equity and statutory receiverships and bankruptcy. The general approach is that of law administration. (Not offered in 1948-49.)  
Summer term 1948.
- 321-22 *Current Decisions* (2-2) Davison  
Required of, and limited to, members of the student staff of the *Law Review*. Time to be arranged.
- 326 *Federal Jurisdiction* (2) Cooper  
Constitutional origins and powers of federal courts; sources of law applicable to them; business and extent of jurisdiction of federal courts. McCormick and Chadbourn, *Cases on Federal Courts*. Evening.

**327 Insurance (2)**

The insurance device in life, property, and other risks. Vance, *Cases on Insurance*, 3d ed.  
Summer term 1948.

**332 Labor Law (4)**

Laws applicable to strikes, picketing, boycotts, etc.; organization and representation of employees; negotiation of collective bargaining contracts; inter-union and intra-union relations; settlement of wage disputes (arbitration, mediation, conciliation). Cases, legislative and administrative materials, readings. Evening.

**333-34 Legislation (2-2)**

Ellis

Justiciable aspects of the legislative process; forms and types of statutes; principles of statutory interpretation, structure and drafting. Read & MacDonald, *Cases and Materials on Legislation*. Evening.

**335-36 Moot Court (2-2)**Laws, Morris, Craighill, Kirkland,  
Edgerton, Myers, Marshall

Open only to students who have completed fifty credit hours. Prerequisite: Law 205 and 234. Morning and evening sections.

**345 Patent Law (2)**

Substantive patent law; patentability; revision, use and enforcement of patents. Evening.

**346 Patent Office Practice (2)**

Rules of Practice; appeal and interference procedure. Evening.

**349-50 Patent Moot Court (2-2)**

Henry

This course may be elected instead of Law 335-36 to satisfy the Moot Court requirement. Both subjects may not be counted toward a degree. Evening.

**351 Public Utilities (2)**

Davison, ———

Limits of regulation of businesses affected with public interest; ascertainment of value of property used for the public service and the fixing of adequate rates of return. Welch, *Cases on Public Utilities*, 3d ed. Morning and evening sections.

Summer term 1948.

**362 Security Transactions (4)**

Security interests in real and personal property, their creation, transfer, enforcement, and extinguishment, together with security problems in the field of suretyship and bankruptcies. Coursebook to be announced. Morning and evening sections.

**373 Taxation (4)**

Collier

Introductory course on basic concepts of federal tax system. Attention given state inheritance and income taxes. Problem of jurisdiction to tax, construction of tax statutes, method of judicial review of administrative actions in the tax field, modern excise taxes on business concerns. Mall and Maguire, *Cases on Taxation*, 4th ed. Morning and evening sections.

- 375-76 *Taxation—Federal* (2-2) Price  
Federal income, gift and estate taxes, and selected federal tax problems. Evening.
- 378 *Trade Regulation II—Federal Anti-Trust* Oppenheim  
*Laws* (4)  
Restraints of trade at common law. Public policy under Sherman Anti-Trust Act of 1890 and Federal Trade Commission and Clayton Acts, including mergers, consolidations and monopoly. Labor combination activities (price fixing agreements, trade associations, international cartels). Specific practices such as resale price maintenance, delivered price systems, exclusive arrangements and tying devices, trade boycotts. Patents and copyrights under anti-trust laws. Remedies. Oppenheim, Cases on Federal Anti-Trust Laws. Morning and evening sections.
- 381-82 *Trusts* (2-2) Dorsey  
Creation, elements, administration, enforcement, termination. Liabilities to and of third persons. Resulting and constructive trusts. Bogert, Cases on Trusts. Morning and evening sections.
- 403-4 *Administrative Law Seminar* (2-2) Davison  
Research seminar course in special problems, including the study of specific administrative agencies, federal or state. Time to be arranged.
- 406 *Administrative Procedures—Civil Aeronautics* Rhyne  
*Board* (2)  
Procedure before Civil Aeronautics Board; legal problems arising in connection with air transportation and airports; international conventions and organizations. Evening.
- 407 *Admiralty* (2) Alden  
Federal and state jurisdiction; jurisdiction over waters, craft, contracts, torts, crimes, in equitable matters, etc.; laws applicable to maritime workers and maritime liens. Sayre, Cases on the Law of Admiralty. Evening.
- 415-16 *Comparative Law* (2-2) Murdock  
Historical and comparative study of some of the institutions and principles of the Roman and modern Civil Law (law of South and Central America and most of the Continent of Europe) compared with those of the Common Law; the influence of the former upon the latter. Evening.
- 421-22 *Constitutional Law Seminar* (2-2) Collier  
Research seminar in contemporary problems in constitutional law. Time to be arranged.
- 429-30 *International—Comparative Law Seminar* Murdock  
(2-2)  
Research seminar in contemporary problems. Time to be arranged.



- 434 *Interstate Commerce Commission Law and Procedure* (2) \_\_\_\_\_  
Interstate Commerce Act; the Interstate Commerce Commission; practice and procedure before the Commission. Evening.
- 435 *Jurisprudence* (2) Collier  
History of jurisprudence; schools of jurists, particularly the nineteenth century schools; sociological jurisprudence; theories of justice; the nature of law; law and morals; law and the state; the scope and subject matter of law, sources and forms of law; the traditional element; analysis of general legal conceptions. Hall, Readings in Jurisprudence. Morning and evening sections.
- 448-49 *Municipal and Government Corporations* McIntire  
(2-2)  
Municipal corporations: organization, powers, functions and legal relations of local governmental units. Federal corporate agencies: organization, powers, functions, and legal relations of functional governmental units separately incorporated. Tooke and McIntire, Cases on Municipal Corporations. Evening.
- 451-52 *Trade Regulation Seminar* (2-2) Oppenheim  
A research seminar in specific current problems relating to federal anti-trust laws and unfair trade practices. Time to be arranged.



## MATHEMATICS

James Henry Taylor, Ph.D., *Professor of Mathematics, Executive Officer*

Francis Edgar Johnston, Ph.D., *Professor of Mathematics*

Florence Marie Mears, Ph.D., *Professor of Mathematics*

\_\_\_\_\_, *Associate Professor of Applied Mathematics*

Nels David Nelson, Ph.D., *Assistant Professor of Mathematics*

Earl Larkin Williams, A.M., *Lecturer in Mathematics*

Joachim Weyl, Ph.D., *Lecturer in Mathematics*

Daniel Maccabaeus Dribin, Ph.D., *Lecturer in Mathematics*

William Henry Erskine, Ph.D., *Lecturer in Mathematics*

Louis William Tordella, Ph.D., *Lecturer in Mathematics*

*Minimum requirements for the major in Mathematics (Departmental).—Fifteen credit hours of mathematics beyond calculus, i.e., of approved second- and third-group courses.*

### FIRST GROUP \*

#### 3 *College Algebra* (3)

The Staff

Exponents and logarithms; linear equations; complex numbers; quadratic equations; introduction to theory of equations; mathematical induction and the binomial theorem; permutations, combinations and probability; determinants; progressions. Prerequisite: one year each of high school algebra and high school geometry. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)

Mathematics 3x—same as Mathematics 3, but offered winter term. Morning and evening sections.

#### 6 *Plane Trigonometry* (3)

The Staff

Prerequisite: two years of high school algebra and one year of high school geometry, or Mathematics 3 (or concurrent registration therefor). Morning and evening sections. (Also offered 1948 summer term.)

Mathematics 6x—same as Mathematics 6, but offered fall term. Morning, afternoon, and evening sections.

#### 12 *Analytic Geometry* (3)

The Staff

Prerequisite: Mathematics 3 and 6, or two years of high school algebra, one year of high school geometry, and one-half year of high school trigonometry. Morning and evening sections. (Also offered 1948 summer term.)

Mathematics 12x—same as Mathematics 12, but offered fall term. Morning, afternoon, and evening sections.

\* No first-group course in mathematics is available for college credit if the student's previous training in mathematics meets the prerequisite for a higher numbered course.

- 19 *Differential Calculus* (3) The Staff  
Prerequisite: Mathematics 12. Morning and evening sections. (Also offered 1948 summer term.)  
Mathematics 19x—same as Mathematics 19, but offered winter term. Morning and evening sections.
- 20 *Integral Calculus*\* (3) The Staff  
Prerequisite: Mathematics 19. Morning and evening sections. (Also offered 1948 summer term.)  
Mathematics 20x—same as Mathematics 20, but offered fall term. Morning and evening sections.

## SECOND GROUP\*

- 102 *Fundamental Concepts of Mathematics* (3)  
(Not offered in 1948-49)
- 112 *Mathematics for Engineers and Scientists* (3) The Staff  
Topics from advanced calculus, partial differential equations, vector analysis, and complex variables. Prerequisite: Mathematics 132. Morning and evening sections. (Also offered 1948 summer term.)  
Mathematics 112x—same as Mathematics 112, but offered fall term. Evening.
- 123 *Theory of Equations* (3) Mears  
Summer term 1948.
- 125 *Advanced Algebra* (3) Tordella  
Evening.
- 126x *Advanced Analytic Geometry* (3) Taylor  
Evening.
- 132 *Differential Equations* (3) The Staff  
Morning and evening sections. (Also offered 1948 summer term.)  
Mathematics 132x—same as Mathematics 132, but offered fall term. Morning and evening sections.
- 134 *Introduction to Boundary Value Problems*  
(3)  
Prerequisite: Mathematics 132. (Not offered in 1948-49)
- †135-36 *Projective Geometry* (2-2)  
(Not offered in 1948-49)
- 139 *Advanced Calculus* (3) Nelson  
Evening.
- 140 *Introduction to Analysis* (3) Mears, Nelson  
Prerequisite: Mathematics 139. Evening.  
Mathematics 140x—same as Mathematics 140, but offered fall term. Morning.

\* Mathematics 20 is prerequisite to all second group courses.

- 141 *Introduction to Infinite Series* (3) Mears  
Evening. (Also offered 1948 summer term.)
- 167 *Fourier Series and Spherical Harmonics* (3)  
Prerequisite: Mathematics 132. (Not offered in 1948-49.)
- 171 *Vector Analysis* (3) Taylor  
Evening. (Also offered 1948 summer term.)  
Mathematics 171A—same as Mathematics 171, but offered winter term. Morning.

## THIRD GROUP

- 202 *Mathematical Logic* (3)  
(Not offered in 1948-49.)
- 220X *Theory of Numbers* (3)  
(Not offered in 1948-49.)
- †237-38 *Theory of Functions* (3-3)  
(Not offered in 1948-49.)
- 242 *Infinite Series* (3) Mears  
Evening.
- 249 *Ordinary Differential Equations* (3)  
(Not offered in 1948-49.)
- 250 *Integral Equations* (3)  
Not offered in 1948-49.
- 255X *Differential Geometry* (3) Taylor  
Evening.
- 257 *Theory of Groups* (3) Johnston  
Evening.
- †265-66 *Modern Algebra* (3-3) Johnston  
Evening.
- 268 *Calculus of Variations* (3)  
(Not offered in 1948-49.)
- 270 *Tensor Analysis* (3) Taylor  
Summer term 1948.
- 271 *Riemannian Geometry* (3)  
(Not offered in 1948-49.)
- 277 *Partial Differential Equations* (3) Weyl  
Evening.
- 295-96 *Reading and Research* (3-3) The Staff  
Time to be arranged.
- 299-300 *Thesis* (3-3) The Staff

## MECHANICAL ENGINEERING

Arthur Frederick Johnson, M.E., Ph.D., *Professor of Mechanical Engineering*

Benjamin Carpenter Cruickshanks, B.S. in M.E., *Professor of Mechanical Engineering, Executive Officer*

Frederick Morris Feiker, B.S. in E.E., D.Eng., *Professor of Engineering Administration*

Robert Gay Trumbull, B.S. in C.E., *Associate Professor of Mechanical Engineering*

Charles Edward Greeley, B.S. in M.E., *Assistant Professor of Mechanical Engineering*

Otakar Wenceslaus Kabelac, M.C.E., *Assistant Professor of Mechanical Engineering*

Rudolph Michel, M.S. in M.E., *Lecturer in Mechanical Engineering*

Edward Frederick Kelley, M.S., Ae.E., *Lecturer in Mechanical Engineering*

Bernard Bernstein, B.S., B.M.E., *Lecturer in Mechanical Engineering*

Luther Bertram Nye, Jr., B.E., *Lecturer in Mechanical Engineering*

Richard Lee Fenton, B.M.E., *Lecturer in Mechanical Engineering*

Frederick Henry Kohloss, B.S. in M.E., *Instructor in Mechanical Engineering*

John Clifford Goff, B.M.E., *Associate in Mechanical Engineering*

Edward French Davis, M.S., *Associate in Mechanical Engineering*

Stanley Walter Lange, B.M.E., *Associate in Mechanical Engineering*

*Minimum requirements for the major.—See pages 107-13.*

### FIRST GROUP

- 1 *Engineering Survey and Orientation* (1) Cruickshanks and Staff  
Open to freshmen only. Afternoon and evening sections.
- 3 *Mechanical Drawing* (2) Trumbull and Staff  
Drafting-room fee, \$3. Drafting (6 hours)—afternoon and evening sections.
- 4 *Descriptive Geometry* (2) Trumbull and Staff  
Drafting-room fee, \$3. Drafting (6 hours)—afternoon and evening sections.



5 *Introductory Naval Architecture* (3)

Nomenclature, functions, and arrangement of hull structure, equipment, and machinery for merchant vessels. Lectures supplemented by visits to shipyards. (Not offered in 1948-49.)

7 *Machine Drawing* (2)

Trumbull, Goff

Prerequisite: Mechanical Engineering 3 and 4. Drafting-room fee, \$3. Drafting (6 hours)—afternoon and evening sections.

8 *Mechanism Drawing* (2)

Trumbull, Goff

Prerequisite: Mechanical Engineering 3, 4, and 13. Prerequisite or concurrent registration: Mechanical Engineering 14. Drafting-room fee, \$3. Drafting (6 hours)—afternoon and evening sections.

9-10 *Ship Drafting* (2-2)

Fairing of lines; displacement, stability curves, midship section, general arrangements and structural detail plans, machinery details. Prerequisite or concurrent registration: Mechanical Engineering 15. Drafting-room fee, \$3 a term. (Not offered in 1948-49.)

13-14 *Mechanism* (2-2)

Trumbull, Kabelac, Fenton

Prerequisite: Mathematics 10. Prerequisite or concurrent registration: Mathematics 20. Morning and evening sections. (Also offered 1948 summer term.)

15-16 *Elementary Ship Calculations* (2-2)

Form characteristics, detailed weights, displacement, transverse and longitudinal equilibrium, launching. Prerequisite: Mechanical Engineering 5. (Not offered in 1948-49.)

## SECOND GROUP

101-2 *Advanced Ship Calculations* (2-2)

Stabilizing, model basin practice, powering, steering, launching, hull strength, floodability, vibrations. Prerequisite: Mechanical Engineering 16. (Not offered in 1948-49.)

103-4 *Ship Design* (2-2)

Prerequisite: Mechanical Engineering 10, 16. Prerequisite or concurrent registration: Mechanical Engineering 117. Drafting-room fee, \$3 a term. (Not offered in 1948-49.)

111-12 *Thermodynamics*  
(3-3)

Cruickshanks, Kohloss, Bernstein

With introductory study of laws of heat transmission. Prerequisite: Mechanical Engineering 14; Physics 8. Prerequisite or concurrent registration: Mathematics 20. Morning and evening sections. (Also offered 1948 summer term.)

- 115-16 *Mechanical Laboratory* (2-2) Greeley, Lange  
Calibration of instruments; calibrating, testing of prime movers, auxiliaries, and combustion engines. Eight-hour boiler test required. Prerequisite: Mechanical Engineering 13-14 and 111-12. Prerequisite or concurrent registration: Mechanical Engineering 129. Laboratory fee, \$6 a term. Laboratory (6 hours)—afternoon and evening sections. (Also offered 1948 summer term.)
- 117-18 *Marine Engines and Auxiliaries* (2-2)  
Details, arrangements and performance of steam unitflow, steam turbine, and Diesel propelling plants. Prerequisite or concurrent registration: Mechanical Engineering 5, 13-14, and 111-12. (Not offered in 1948-49.)
- 126 *Methods of Manufacture* (2) Greeley  
Fixtures, gauging, tools, costs. Prerequisite: Mechanical Engineering 8 and 14; Civil Engineering 26. Morning and evening sections. (Also offered 1948 summer term.)
- 127-28 *Machine Design* (2-2) Johnson  
With stress-analysis lectures. Prerequisite: Mechanical Engineering 112 and 126; Civil Engineering 26, 123, 136, and 141. Drafting-room fee, \$3 a term. Computation and drafting (6 hours)—Saturday morning. (Also offered 1948 summer term—Mechanical Engineering 127 (2).)
- 129-30 *Power Plants* (3-3) Cruickshanks  
Study of design, layout, installation, and operation of power plants and equipment. Prerequisite: Mechanical Engineering 112. Morning and evening sections.
- 131-32 *Heating, Ventilating, Air Conditioning, and Refrigeration* (2-2) Kohloss, Nye  
Prerequisite: Mechanical Engineering 112. Morning and evening sections. (Also offered 1948 summer term.)
- 133 *Combustion Engines* (2) Greeley  
Prerequisite: Mechanical Engineering 112; Civil Engineering 123 and 139; Electrical Engineering 10. Morning and evening sections. (Also offered 1948 summer term.)
- 139 *Fluid Dynamics* (3) Johnson, Kelley, Kabelac  
The theories of hydro- and aero-mechanics as influenced by density, viscosity, and turbulence. Prerequisite: Mechanical Engineering 112; Civil Engineering 140. Morning and evening sections.
- 140 *Dynamics of Machinery* (3) Johnson, Michel, Kabelac  
Inertia effects, balancing, vibration phenomena. Prerequisite: Mechanical Engineering 115; Civil Engineering 123 and 136. Morning and evening sections. (Also offered 1948 summer term.)

- 141-42 *Management Problems* (2-2) Feiker  
The handling and training of men. Prerequisite: Economics 1-2  
Morning and evening sections.
- 145-46 *Management Controls* (2-2) \_\_\_\_\_  
Prerequisite: Economics 1-2; Business Administration 101, 102. Time  
to be arranged.
- 147 *Industrial Labor Relations* (2) \_\_\_\_\_  
Prerequisite: Mechanical Engineering 141-42. Time to be arranged.
- 189-90 *Proseminar in Mechanical Engineering* (1-1) Johnson  
Saturday morning. (Also offered 1948 summer term.)

## MEDICINE

- Walter Andrew Bloedorn, A.M., M.D., *Professor of Medicine*  
 Thomas McPherson Brown, A.B., M.D., *Professor of Medicine, Executive Officer*  
 Coursen Baxter Conklin, A.M., M.D., *Clinical Professor of Medicine*  
 Charles Robert Lee Halley, A.B., M.D., *Clinical Professor of Medicine*  
 Paul Frederick Dickens, M.D., *Clinical Professor of Medicine*  
 Harry Filmore Dowling, A.B., M.D., *Clinical Professor of Medicine*  
 Benjamin Frank Miller, B.S., Chem. Eng., M.D., *Clinical Professor of Medicine*  
 Sol Katz, B.S., M.D., *Adjunct Clinical Professor of Medicine*  
 Louis Katz Alpert, B.S., M.D., *Adjunct Clinical Professor of Medicine*  
 Harry Eagle, A.B., M.D., *Adjunct Clinical Professor of Medicine*  
 Joseph Francis Sadusk, Jr., A.B., M.D., *Adjunct Clinical Professor of Medicine*  
 Clark Harvey Yeager, M.D., Dr. P.H., *Professorial Lecturer on Tropical Medicine*  
 Norman Hawkins Topping, A.B., M.D., *Professorial Lecturer on Rickettsial Diseases*  
 Monroe James Romansky, A.B., M.D., *Associate Professor of Medicine*  
 Clayton Bernard Ethridge, M.D., *Associate Clinical Professor of Medicine*  
 Walter Kendall Myers, B.S., M.D., *Assistant Clinical Professor of Medicine*  
 John Alton Reed, A.B., M.D., *Assistant Clinical Professor of Medicine*  
 Theodore Judson Abernethy, B.S., M.D., *Assistant Clinical Professor of Medicine*  
 William Travis Gibb, A.B., M.D., *Assistant Clinical Professor of Medicine*  
 John McCallum Evans, A.B., M.D., *Assistant Clinical Professor of Medicine*  
 Carl Calvin Dauer, A.B., M.D., M.P.H., *Assistant Clinical Professor of Medicine*  
 Roy Hertz, Ph.D., M.D., *Assistant Clinical Professor of Medicine*  
 Carl Leonard Larson, B.S., M.D., *Assistant Clinical Professor of Medicine*  
 Samuel Ross Taggart, M.D., *Assistant Clinical Professor of Medicine*  
 Watson William Eldridge, Jr., M.D., *Associate in Medicine*  
 Herman Solomon Hoffman, A.B., M.D., *Associate in Medicine*  
 John Minor, A.B., M.D., *Associate in Medicine*  
 Maurice Protas, A.B., M.D., *Associate in Medicine*



- John Watkins Trenis, A.B., M.D., *Associate in Medicine*  
 Pearl Holly, M.S., M.D., *Associate in Medicine*  
 Benjamin Manchester, M.D., *Associate in Medicine*  
 Irving Wolie Winik, M.D., *Associate in Medicine*  
 Lawrence Jay Thomas, B.S., M.D., *Associate in Medicine*  
 James Joseph Feffer, A.B., M.D., *Associate in Medicine*  
 Lawrence Elias Putnam, A.B., M.D., *Associate in Medicine*  
 Eugene Pitcher Cronkite, A.B., M.D., *Associate in Medicine*  
 Clarence Richard Hartman, A.B., M.D., *Associate in Medicine*  
 Andrew Gabriel Prandoni, B.S., M.D., *Associate in Medicine*  
 Bernard Lauriston Hardin, Jr., A.B., M.D., *Associate in Medicine*  
 Albert David Kistin, A.M., M.D., *Associate in Medicine*  
 Charles William Ordman, A.B., M.D., *Associate in Medicine*  
 Ruth Hechler Wichelhausen, M.D., *Associate in Medicine*  
 Richard Bernard Castell, A.B., M.D., *Clinical Instructor in Medicine*  
 Luther Henry Snyder, A.B., M.D., *Clinical Instructor in Medicine*  
 Emil Herbert Bauersfeld, A.B., M.D., *Clinical Instructor in Medicine*  
 John Bayne Marbury, M.D., *Clinical Instructor in Medicine*  
 Louis Ross, M.D., *Clinical Instructor in Medicine*  
 James Theodore Burns, M.D., *Clinical Instructor in Medicine*  
 Frederic Dunbar Chapman, A.B., M.D., C.M., *Clinical Instructor in Medicine*  
 Irvin Kerlan, B.S., M.D., C.P.H., *Clinical Instructor in Medicine*  
 Virginia Patterson Beelar, A.B., M.D., *Clinical Instructor in Medicine*  
 Myer Harold Stolar, B.S., M.D., *Clinical Instructor in Medicine*  
 Alfred Brigulio, M.D., *Clinical Instructor in Medicine*  
 Lester Sylvan Blumenthal, A.B., M.D., M.S. in Med., *Clinical Instructor in Medicine*  
 Samuel Jacob Nathan Sugar, Phar.G., M.D., *Clinical Instructor in Medicine*  
 Joseph Ney, B.S., M.D., *Clinical Instructor in Medicine*  
 Henry Dunlop Ecker, B.S., M.D., *Clinical Instructor in Medicine*  
 John Wilmer Latimer, Jr., M.D., *Clinical Instructor in Medicine*  
 Mark Hummer Lepper, M.D., *Clinical Instructor in Medicine*  
 Charles Wilson Jones, A.B., M.D., *Clinical Instructor in Medicine*  
 Halla Brown, M.D., *Clinical Instructor in Medicine*  
 Frank Solomon Bacon, B.S., M.D., *Clinical Instructor in Medicine*  
 Joseph Beinstein, A.B., M.D., *Clinical Instructor in Medicine*  
 William Kirkman Billingsley, Jr., A.B., M.D., *Clinical Instructor in Medicine*  
 DeWitt Elmer DeLawter, M.D., *Clinical Instructor in Medicine*  
 William Frank, M.D., *Clinical Instructor in Medicine*  
 Camp Stanley Huntington, M.D., *Clinical Instructor in Medicine*

Stanley William Kirstein, M.D., *Clinical Instructor in Medicine*  
 James Walling Long, M.D., *Clinical Instructor in Medicine*  
 Ralph Bretney Miller, M.D., *Clinical Instructor in Medicine*  
 Thomas Joseph Pekin, M.D., *Clinical Instructor in Medicine*  
 Alvin Rouzer, B.S., M.D., *Clinical Instructor in Medicine*  
 Raymond Schwartz, A.B., M.D., *Clinical Instructor in Medicine*  
 Gordon Murdoch Smith, A.B., M.D., *Clinical Instructor in Medicine*  
 Robert George Taylor, M.D., *Clinical Instructor in Medicine*  
 Charles Waters Thompson, M.D., *Clinical Instructor in Medicine*  
 Maurice Franks, M.D., *Clinical Instructor in Medicine*  
 Charles Edward Law, M.D., *Clinical Instructor in Medicine*  
 Thomas Stone Sappington, A.B., M.D., *Clinical Instructor in Medicine*  
 James Francis Ambury, B.S., M.D., *Clinical Instructor in Medicine*  
 William Otis Bailey, Jr., M.D., *Clinical Instructor in Medicine*  
 Harry Clark Bates, B.S., M.D., *Clinical Instructor in Medicine*  
 Joseph Andrew Brennan, M.D., *Clinical Instructor in Medicine*  
 Robert Lee Brickhouse, B.S., M.D., *Clinical Instructor in Medicine*  
 Robert Norwood Coale, B.S., M.D., *Clinical Instructor in Medicine*  
 Israel Kessler, M.S., M.D., *Clinical Instructor in Medicine*  
 Maurice Mensh, M.D., *Clinical Instructor in Medicine*  
 Frank Murray, A.B., M.D., *Clinical Instructor in Medicine*  
 Edwin Pearson Parker III, B.S., M.D., *Clinical Instructor in Medicine*  
 Jack Jacob Rheingold, A.B., M.D., *Clinical Instructor in Medicine*  
 Morris Hirsh Rosenberg, A.B., M.D., *Clinical Instructor in Medicine*  
 Hyman Joseph Zimmerman, A.B., M.D., *Clinical Instructor in Medicine*  
 Eston Robert Caldwell, B.S., M.D., *Teaching Fellow in Medicine*  
 Ruth Benedict, A.B., M.D., *Teaching Fellow in Cardiology*

132 *History of Medicine*  
One hour a week.

Conklin

236 *Laboratory Medicine and Hematology* Holly, Cronkite  
Lectures and laboratory work covering aspects of laboratory diagnosis of diseases of the blood, blood-typing, and study of spinal fluid. Lectures on anemias, leukemias, and other blood dyscrasias. Three hours a week.

241-42 *Physical Diagnosis* Putnam and Staff  
Demonstrations and practice on the normal and abnormal subject; designed to cover the entire subject of physical diagnosis.

244 *General Medicine* Brown and Staff  
Lectures covering general aspects of all phases of medical disease and including therapeutics. Three hours a week.

- 298 *Cardiovascular System* Bloedorn and Staff  
The etiology, diagnosis, and treatment of the diseases of the heart, pericardia, and peripheral vessels with an introductory course on electrocardiography. One hour a week.
- 301 *The Heart* Brown and Staff  
Lectures covering normal and abnormal heart. One hour a week.
- 324 *Clinical Physiology* Brown and Staff  
Lectures and clinics for the correlation of preclinical and laboratory studies of physiology with altered function as observed in clinic and ward. One hour a week.
- 325-26 *Clinical Clerkship* Dowling and Staff  
Individual case work under strict supervision (student's histories generally accepted as hospital records). Emergency and Gallinger hospitals.
- 327-28 *Clinical Pathological Conference* Brown, Choisser  
Required in the third and fourth years. Correlation of clinical and post-mortem findings; detailed case descriptions from the clinical point of view, followed by thorough demonstrations, grossly and with lantern slides, of post-mortem findings. One hour a week.
- 349-50 *Grand Ward Rounds* Dowling and Staff  
Conducted weekly at Gallinger Hospital. Cases are presented at this conference by members of the Resident Staff and Visiting Staff.
- 416 *Tropical Medicine* Yeager  
Lectures, laboratory exercises, museum and clinical demonstrations designed to familiarize the student with problems of tropical medicine. Two hours a week.
- 420 *Medical Jurisprudence* Eldridge  
Lectures on the legal and ethical rights of physicians, and on the legal problems with which the physician is brought into contact. One hour a week for eleven weeks.
- 421-22 *Dispensary Clinics* The Staff  
Thorough study of individual cases subsequently reviewed in detail by the Staff. The University and Emergency hospitals.
- 425-26 *Clinical Clerkship* The Staff  
Individual case work under strict supervision (student's histories generally accepted as hospital records). The University Hospital.
- 440 *Clinical Pharmacology* The Staff  
Brief review in materia medica, prescription writing and the fundamentals of therapeutics; discussion of the pharmacological basis of therapeutics.



## MILITARY SCIENCE AND TACTICS \*

Vernon David Pettit, B.S., M.D., Lieutenant Colonel, Medical Corps,  
United States Army, *Professor of Military Science and Tactics*

### 129-30 *Basic Course, Senior Division ROTC* Pettit (First Year)

World situation, national defense, and ROTC (3); military obligations of citizenship (1); organization of the Army (10); organization of the Medical Department (5); courtesies and customs of the Service (2); military law (4); military training (2); medical military history (1); military administration (3); examination and discussion (1).

### 247-48 *Basic Course, Senior Division ROTC* Pettit (Second Year)

World situation, national defense, and ROTC (3); organization and employment of medical service of field army (5); duties of the surgeon (3); medical service, zone of communications (1); medical service, zone of interior (1); medical supply (1); introduction to map reading (4); health and national security (2); first aid, bandaging, and splinting (5); examination and discussion (1).

### 329-30 *Advanced Course, Senior Division ROTC ‡* Pettit (First Year)

World situation, national defense, and ROTC (1); military preventive medicine (20); field medicine and surgery (10); army graduate professional education program (1); army career (1); examination and discussion (1).

### 429-30 *Advanced Course, Senior Division ROTC ‡* Pettit (Second Year)

World situation, national defense, and ROTC (3); military preventive medicine (11); medical aspects of atomic warfare (2); medical aspects of chemical warfare (2); military psychiatry (5); personnel management (3); military medical research development (3); organized reserve corps (1); mobilization (1); examination and discussion (1).

\* Figures in parentheses indicate the number of hours devoted to the subject.

‡ Students in the advanced course are selected from those who satisfactorily complete the basic course, or have one year active federal service.



## NEUROLOGY AND NEUROLOGICAL SURGERY

Walter Freeman, Ph.D., M.D., *Professor of Neurology, Executive Officer*

James Winston Watts, B.S., M.D., *Professor of Neurological Surgery*

Hyman David Shapiro, M.D., *Assistant Clinical Professor of Neurology*

Robert Henry Groh, B.S., M.D., *Associate in Neurology*

Paul Chodoff, A.B., M.D., *Associate in Neurology*

James Peter Murphy, B.S., M.D., *Associate in Neurological Surgery*

George Davis Weickhardt, M.D., *Clinical Instructor in Neurology*

Hugo Victor Rizzoli, A.B., M.D., *Clinical Instructor in Neurological Surgery*

Jonathan Marshall Williams, M.D., *Clinical Instructor in Neurological Surgery*

Oscar Legault, A.B., M.D., *Clinical Instructor in Neurology*

### 249-50 *Neurology (elective)*

Freeman

Methods of study of the nervous system. Gross and microscopic preparations, embryology, comparative anatomy, stimulation and excitation, human pathology, etc. Laboratory demonstrations. One hour a week.

### 331 *Neurology*

Shapiro and Staff

Systematic lectures with lantern slides, illustrating the chief neurologic syndromes and their anatomic bases. One hour a week.

### 333-34 *Neurology and Neurological*

Freeman and Staff

*Surgery, Clinical Clerkship*

Instruction in history, physical examination, ordinary clinical procedures. Attendance at neurologic operations. Gallinger Hospital. Four students in rotation, two weeks.

### 335-36 *Neurological Conference*

Freeman and Staff

Clinical conference one afternoon a week followed by clinicopathologic study of specimens from current necropsies. Gallinger Hospital. Two and one-half hours a week.

### 431-32 *Neurology Clinic*

Freeman and Staff

Neurological outpatient clinic. Consultation of staff on ambulatory cases, demonstration of diagnostic procedures, disposition of neuropsychiatric cases. Discussion of neuropathologic material. Two hours a week.

433-34 *Neurosurgery*

Watts and Staff

Clinical demonstrations in surgery of the brain, spinal cord, and peripheral nerves. Emphasis is laid upon fundamentals and upon the possibilities of surgery in the relief of symptoms. Section of four students, two hours a week.

435-36 *Neurology, Clinical Clerkship*

Weickhardt

Instruction in manifestations of organic nervous diseases associated with mental disorder. St. Elizabeths Hospital. Four students in rotation, two days.

## OBSTETRICS AND GYNECOLOGY

- John Parks, M.S., M.D., *Professor of Obstetrics and Gynecology, Executive Officer*
- Radford Brown, M.D., *Clinical Professor of Obstetrics and Gynecology*
- Jacob Kotz, M.D., *Clinical Professor of Obstetrics and Gynecology*
- Henry Lauran Darner, A.B., M.D., *Clinical Professor of Obstetrics and Gynecology*
- Herbert Percy Ramsey, A.B., M.D., *Clinical Professor of Obstetrics and Gynecology*
- Robert Barter, M.D., *Adjunct Clinical Professor of Obstetrics and Gynecology*
- George Nordlinger, A.B., M.D., *Associate in Obstetrics and Gynecology*
- Laurence Lee Cockerille, M.D., *Associate in Obstetrics and Gynecology*
- Clayton Howard Hixson, M.D., *Associate in Obstetrics and Gynecology*
- Henry John Russell McNitt, B.S. in Med., M.D., *Associate in Obstetrics and Gynecology*
- Samuel Mayer Dodek, A.M., M.D., *Associate in Obstetrics and Gynecology*
- Russel Jon Jansen, M.D., *Associate in Obstetrics and Gynecology*
- Howard Pope Parker, A.B., M.D., *Associate in Obstetrics and Gynecology*
- Roger O'Donnell, Jr., A.B., M.D., *Associate in Obstetrics and Gynecology*
- James Albert Dusbabek, M.D., *Associate in Obstetrics and Gynecology*
- Barton Winters Richwine, M.D., *Associate in Obstetrics and Gynecology*
- Clarence Kendall Fraser, Ph.B., M.D., *Associate in Obstetrics and Gynecology*
- Neel Jack Price, B.S., M.D., *Instructor in Obstetrics and Gynecology*
- Katherine Elizabeth Parker, A.M., M.D., *Clinical Instructor in Obstetrics and Gynecology*
- William Dandridge Terrell, Jr., M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Samuel Hazen Shea, M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Julius Robert Epstein, M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Morton Selwyn Kaufman, A.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Floyd Sterling Rogers, M.D., *Clinical Instructor in Obstetrics and Gynecology*

- Rufus Martin Roll, A.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*  
 Caroline Jackson, A.M., M.D., *Clinical Instructor in Obstetrics and Gynecology*  
 Jeremiah Keith Cromer, M.D., *Clinical Instructor in Obstetrics and Gynecology*  
 Jed Williams Pearson, Jr., A.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*  
 Thomas Miles Leonard, Ph.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*  
 William Thurston Lady, M.D., *Clinical Instructor in Obstetrics and Gynecology*  
 Albert Seymour Bright, M.D., *Clinical Instructor in Obstetrics and Gynecology*  
 Shirley Sue Martin, M.D., *Clinical Instructor in Obstetrics and Gynecology*  
 Ekrem Turan, M.D., *Teaching Fellow in Obstetrics and Gynecology*

- 253-54 *Normal Obstetrics* Fraser, Dodek  
 Lectures and demonstrations on the physiology and management of normal pregnancy. One hour a week.
- 337-38 *Abnormal Obstetrics* Nordlinger, Parks  
 Lectures and demonstrations on the complications of pregnancy. One hour a week.
- 343 *Gynecology* Brown  
 Lectures and demonstrations on the principals of gynecology. One hour a week.
- 344 *Marriage and Marital Problems* Ramsey, Nordlinger  
 A course of instruction in marriage counseling and planned parenthood. One hour a week.
- 348 *Female Endocrinology and Operative Gynecology* Kotz, Darner  
 Lectures on the physiology and pathology of the female endocrine system and on principles of gynecological surgery. One hour a week.
- 401-2 *Manikin Demonstrations* Lady  
 The mechanism of labor and various types of operative delivery demonstrated by section of the class in weekly sessions.
- 441-42 *Clinical Obstetrics* Parks and Staff  
 Senior students participate in prenatal and postnatal clinic care; make postpartum home calls; observe the course of labor and deliver patients under supervision; attend biweekly departmental conferences and daily ward rounds in the University, Gallinger, and Garfield hospitals.
- 443-44 *Clinical Gynecology* Parks and Staff  
 Senior students observe and participate in the gynecological work of clinics, operating rooms, and gynecological wards of the University, Gallinger, and Garfield hospitals.



## OPHTHALMOLOGY

Ernest Alfred Watson Sheppard, M.D., C.M., *Professor of Ophthalmology, Executive Officer*

Ronald Atmore Cox, A.B., M.D., *Assistant Clinical Professor of Ophthalmology*

Frank Duncan Costenbader, B.S., M.D., *Assistant Clinical Professor of Ophthalmology*

Richard Wallace Wilkinson, M.S., M.D., *Associate in Ophthalmology*

Sterling Bockoven, M.D., *Associate in Ophthalmology*

Walter Joseph Romejko, M.D., *Clinical Instructor in Ophthalmology*

Carmon Robert Naples, B.S., M.D., *Clinical Instructor in Ophthalmology*

Micollus Noel Stow, M.D., D.M.S., *Clinical Instructor in Ophthalmology*

James Spencer Dryden, M.D., *Clinical Instructor in Ophthalmology*

William Paxson Chalfant, Jr., M.D., *Clinical Instructor in Ophthalmology*

William Joseph Graham Davis, A.B., M.D., *Clinical Instructor in Ophthalmology*

William Henry Hanna, A.B., M.D., *Clinical Instructor in Ophthalmology*

### 351-52 *Ophthalmology*

The Staff

A lecture course presenting the principles of ophthalmology, with special reference to topics of importance to the general practitioner. One hour a week for sixteen weeks.

### 447 *Clinic*

The Staff

Intensive training in diseases of the eye; etiology, diagnosis, and treatment in their application to clinical cases. Episcopal Hospital. Three hours twice a week.

## OTO-RHINO-LARYNGOLOGY

- Daniel Bruce Moffett, A.B., M.D., *Professor of Oto-rhino-laryngology, Executive Officer*  
 William Herndon Jenkins, M.D., *Clinical Professor of Oto-rhino-laryngology*  
 Leroy Lee Sawyer, A.B., M.D., *Assistant Clinical Professor of Oto-rhino-laryngology*  
 David Davis, A.B., M.D., *Associate in Oto-rhino-laryngology*  
 Aubrey David Fischer, M.D., *Associate in Oto-rhino-laryngology*  
 Joel Norton Novick, M.S., M.D., *Clinical Instructor in Oto-rhino-laryngology*  
 John Gordon Bell, M.D., *Clinical Instructor in Oto-rhino-laryngology*  
 Catharine Birch, A.B., M.D., *Clinical Instructor in Oto-rhino-laryngology*  
 Homer King Vann, A.B., M.D., *Clinical Instructor in Oto-rhino-laryngology*  
 James Jerry McFarland, Jr., A.B., M.D., *Clinical Instructor in Oto-rhino-laryngology*

- 451 *Oto-rhino-laryngology* Moffett, Jenkins  
 Lectures and demonstrations on anatomy, physiology, and diseases of the ear, nose, and throat. One hour a week.
- 454 *Bronchoscopy* Davis  
 A series of lectures on the fundamental principles and the use of instruments, including both the bronchoscope and esophagoscope. One hour a week for two weeks.
- 456 *Clinic* The Staff  
 Practical clinical instruction in the diagnosis and treatment of diseases of the ear, nose, and throat. Episcopal Hospital. One and one-half hours twice a week.

## PATHOLOGY

Roger Morrison Choisser, B.S., M.D., *Professor of Pathology, Executive Officer*

Thomas Martin Peery, A.B., M.D., *Associate Professor of Pathology*

Carl Hunt Wells, B.S., M.D., *Associate Professor of Pathology*

Robert Pelley Hill, B.S., M.D., *Assistant Professor of Pathology*

William John Schewe, A.B., B.S. in Med., M.D., *Instructor in Pathology*

Robert Rice Montgomery, A.B., M.D., *Teaching Fellow in Pathology*

Frederick Shillinger, B.S., M.D., *Teaching Fellow in Pathology*

Max Stephen Millar, A.B., M.D., *Teaching Fellow in Pathology*

### SEMINAR LECTURERS

Elson Bowman Helwig, B.S., M.D., *Professorial Lecturer in Pathology*

Hans Frank Smetana, M.D., *Professorial Lecturer in Pathology*

Henry Rappaport, M.D., *Professorial Lecturer in Pathology*

James Earle Ash, Jr., M.D., *Professorial Lecturer in Pathology*

#### 259-60 *Pathology*

Choisser and Staff

Malformations, inflammations, degenerations, and neoplasms; special pathology of the organs and specific diseases. The laboratory work consists of the gross and microscopic study of diseased tissues. Necropsies are held regularly at the University and Gallinger hospitals.

#### 307 *Necropsy (elective)*

The Staff

Students assist in the performance of necropsies. Fresh gross specimens and microscopic sections from each case are presented at weekly conferences. Current literature relating to cases is reviewed and presented by the students.

#### 327-28 *Clinical Pathological Conference*

Choisser, Brown

Required in the third and fourth years. Case histories are presented and discussed by members of the staff and student body; necropsy and clinical findings are compared, and gross and microscopic specimens examined. One hour a week.

#### 460 *Research*

Choisser

Hours and credits to be arranged.

## PEDIATRICS

- Preston Alexander McLendon, B.S., M.D., *Professor of Pediatrics, Executive Officer*  
 Margaret Mary Nicholson, A.B., M.D., *Clinical Professor of Pediatrics*  
 Edward Lewis, M.D., *Clinical Professor of Pediatrics*  
 William Staton Anderson, A.B., M.D., *Clinical Professor of Pediatrics*  
 Lewis Kaigler Sweet, A.B., M.D., *Adjunct Clinical Professor of Pediatrics*  
 Mabel Harlakenden Grosvenor, A.B., M.D., *Assistant Clinical Professor of Pediatrics*  
 John Augustine Washington, A.B., B.S., M.D., *Assistant Clinical Professor of Pediatrics*  
 Aaron Nimetz, A.B., M.D., *Assistant Clinical Professor of Pediatrics*  
 \*Dorothy Steidle Jaeger, M.D., *Assistant Clinical Professor of Pediatrics*  
 George Maksim, M.D., M.S. in Ped., *Assistant Clinical Professor of Pediatrics*  
 Reginald Lourie, M.D., *Associate in Pediatrics*  
 Henry Marcus Work, A.B., M.D., *Associate in Pediatrics*  
 John Howell Peacock, B.S., M.D., *Clinical Instructor in Pediatrics*  
 Herbert Harold Diamond, M.D., *Clinical Instructor in Pediatrics*  
 Frederic Gerard Burke, B.S., M.D., *Clinical Instructor in Pediatrics*  
 Reginald Henry Mitchell, M.D., *Clinical Instructor in Pediatrics*  
 Maynard Irving Cohen, A.B., M.D., *Clinical Instructor in Pediatrics*  
 William Allen Howard, A.B., M.D., *Clinical Instructor in Pediatrics*  
 Mary Katherine Laurence Sartwell, A.B., M.D., *Clinical Instructor in Pediatrics*  
 Sidney Ross, M.D., *Clinical Instructor in Pediatrics*  
 Charles Frederick Stiegler, A.B., M.D., *Clinical Instructor in Pediatrics*  
 Allan Bertram Coleman, M.D., *Teaching Fellow in Pediatrics*

- 355-56 *Pediatrics* McLendon and Staff  
 Lectures on physiology of the newborn, development, infant nutrition, diseases of the newborn, common anomalies and system illnesses of childhood. Gallinger Municipal Hospital. One hour weekly.
- 357-58 *Clinical Clerkship—General Pediatrics* Nicholson and Staff  
 General pediatric diseases and the newborn. Emphasis on history taking and physical examination. Daily ward rounds. Gallinger Municipal Hospital. Five students in rotation, two weeks.

\* On leave of absence fall term 1948-49.



359-60 *Clinical Clerkship-Contagious Diseases* Grosvenor and Staff

Preventive and quarantine measures. Daily ward rounds and conferences. Gallinger Municipal Hospital. Five students in rotation, two weeks.

361-62 *Clinical Conference* McLendon and Staff

Required in third year. Presentation and discussion of current patient problems. Gallinger Municipal Hospital. One hour weekly.

457-58 *Clinical Clerkship* McLendon and Staff

Full time including assignment to night and holiday admissions. Case studies on wards under direct Resident supervision. Ward rounds with Staff and Residents. Childrens Hospital. Ten students, four weeks.

459-60 *Out-patient Clinics* Washington and Staff

Work in Medical and Specialty clinics including surgery, allergy, X-ray, child welfare, cardiology, dermatology, neurology, and child guidance. Childrens Hospital.

461-62 *Clinico-pathological Conference* McLendon and Staff

Clinical and pathological discussion of recent patient history and laboratory data. Childrens Hospital.

463-64 *Group Conferences* McLendon and Staff

Discussion of clinical problems of diagnosis and treatment of current patients. Childrens Hospital. Twice weekly.

## PHARMACOLOGY

Paul Kenneth Smith, Ph.D., *Professor of Pharmacology, Executive Officer*

Erwin Ellis Nelson, M.D., Ph.D., *Adjunct Clinical Professor of Pharmacology*

Edward Leong Way, Ph.D., *Assistant Professor of Pharmacology*

Aldo Peter Truant, A.B., *Instructor in Pharmacology*

- |        |  |           |
|--------|--|-----------|
| 261    | Pharmacology   | The Staff |
|        | Lectures and conferences concerning the interaction of drugs and biological systems as a basis for the rational therapy of disease. Five hours a week.             |           |
| 263    | Pharmacology Laboratory  | The Staff |
|        | Laboratory instruction and demonstrations designed to complement the above course. Five hours a week.  |           |
| 265    | Chemotherapy   | The Staff |
|        | Five lectures a week for three weeks. Designed for graduate students.  |           |
| 361-62 | Pharmacological Research   | The Staff |
|        | Primarily for those properly qualified graduate and medical students seeking careers in pharmacology. Hours and credits to be arranged.                            |           |
| 363-64 | Pharmacology Seminar (1-1)   | The Staff |
|        | Recent advances in pharmacology. For those interested in pharmacological research. Two hours a week.   |           |
| 369-70 | Clinical Pharmacology  | The Staff |
|        | Discussions of the pharmacological basis of therapeutics. One hour a week.   |           |
| 479-80 | Special Methods in Research  | The Staff |
|        | A course to familiarize the student with advanced chemical and physiological methods employed in pharmacological investigations. Hours and credits to be arranged. |           |

## PHARMACY

Charles Watson Bliven, M.S., *Professor of Pharmaceutical Chemistry.*  
*Executive Officer*

William Paul Briggs, M.S., Sc.D., *Professorial Lecturer in Pharmacy*

Jane Gass, M.S., *Assistant Professor of Pharmacology and Pharmacognosy*

Asa Vernon Burdine, *Lecturer on Pharmaceutical Economics*

Harold Clayton Kinner, B.S. in Phar., *Lecturer on Pharmaceutical Law*

Arthur William Jones, Phar.G., *Instructor in Pharmacy*

David Lucian Rice, B.S. in Phar., *Instructor in Hospital Pharmacy*

Carmel Miriam Snow, B.S. in Phar., *Instructor in Hospital Pharmacy*

Francis Joseph Broceni, Phar.G., *Associate in Pharmacy*

### SEMINAR LECTURERS

James Johnson Durrett, M.S., Phar.G., M.D., *Professorial Lecturer on Drug Control Problems*

Carson Peter Frailey, Phar.D., *Professorial Lecturer on Industrial Pharmacy*

Frederick John Cullen, Phar.G., M.D., *Professorial Lecturer on Drug Manufacture*

James Albert Horton, LL.B., *Professorial Lecturer on Drug Trade Regulations*

John Christian Krantz, Jr., Ph.D., *Professorial Lecturer on Pharmaceutical Research*

Justin Lawrence Powers, Ph.D., *Professorial Lecturer on Official Drug Standards*

George Clemens Ruhland, M.D., *Professorial Lecturer on Hygiene and Sanitation*

Robert Lee Swain, Phar.D., LL.B., *Professorial Lecturer on Contemporary Pharmacy*

George Potter Larrick, *Professorial Lecturer on Drug Control*

Robert Philipp Fischelis, B.S., Phar.D., Sc.D., *Professorial Lecturer on Pharmaceutical Organizations*

James Anderson Crabtree, M.D., D.Ph., *Professorial Lecturer on Public Health*

*Minimum requirements for the degrees.—See pages 118–20.*

### FIRST GROUP

1–2 *Principles of Pharmacy* (2–2)

Bliven

Pharmaceutical mathematics and fundamental laboratory technique.

Laboratory fee, \$8 a term. Lecture (2 hours), laboratory (2 hours)

—morning

- 21-22 *Operative Pharmacy* (4-4) Jones  
The theory and manufacture of pharmacopoeial and formulary preparations. Laboratory fee, \$12 a term. Lecture (2 hours)—morning; laboratory (6 hours)—morning and afternoon sections.
- 23 *Pharmacognosy* (3) Gass  
Microscopic and macroscopic. Prerequisite: Botany 1. Laboratory fee, \$7. Lecture (2 hours)—afternoon; laboratory (3 hours)—afternoon.
- 25-26 *History, Literature, and Ethics of Pharmacy* Briggs  
(1-1)  
Survey of the development of the profession of pharmacy and the literature of pharmacy. Morning.

## SECOND GROUP

- 102 *Dispensing Pharmacy* (4) Briggs and Assistant  
Compounding of typical prescriptions and a study of incompatibilities. Prerequisite: Pharmacy 2 and 22; concurrent registration: Pharmacy 110. Laboratory fee, \$12. Lecture (2 hours); laboratory (6 hours)—afternoon.
- 103 *Dispensing Pharmacy* (4) Briggs and Assistant  
Continuation of Pharmacy 102. Laboratory fee, \$12. Lecture (2 hours); laboratory (6 hours)—afternoon.
- 105-6 *Pharmacology I* (2-2) Gass  
Uses of official and new nonofficial drugs; biologicals, glandular products, first aid, and medical requisites. Prerequisite or concurrent registration: Physiology 115. Morning.
- 109 *Inorganic Pharmaceutical Chemistry* (3) Jones  
Preparation and qualitative testing of official inorganic chemicals and chemical preparations. Laboratory fee, \$12. Prerequisite: Chemistry 21. Lecture (2 hours)—morning; laboratory (3 hours)—morning and afternoon sections.
- 110 *Organic Pharmaceutical Chemistry* (3) Bliven  
Preparation and qualitative testing of official organic chemicals and chemical preparations. Laboratory fee, \$12. Prerequisite or concurrent registration: Chemistry 152. Lecture (2 hours)—morning; laboratory (3 hours)—afternoon.
- 151 *Advanced Pharmacognosy* (2) Gass  
Microscopic. Prerequisite: Pharmacy 23. Laboratory fee, \$7. Time to be arranged.
- 153-54 *Pharmacology II* (3-3)  
Laboratory work in basic pharmacological technique. Prerequisite: Pharmacy 106; Physiology 115 and 117. Laboratory fee, \$8 a term. Time to be arranged.



- 165-66 *Pharmacology III* (3-3) Gass  
Pharmacodynamics, toxicology, and biological assays. Prerequisite: Pharmacy 23 and 125; Physiology 115 and 117. Pharmacy 166, laboratory fee, \$12. Fall term: morning. Winter term: lecture (2 hours)—morning; laboratory (3 hours)—afternoon.
- 172 *Advanced Dispensing Pharmacy* (2) —————  
The equipment and management of professional pharmacies and advanced dispensing. Prerequisite: Pharmacy 103. Laboratory fee, \$12. Time to be arranged.
- 173 *Quantitative Pharmaceutical Analysis* (4) Bliven  
Drug analysis. Prerequisite: Chemistry 22. Laboratory fee, \$12. Lecture (2 hours)—morning; laboratory (6 hours)—afternoon.
- 176 *Pharmaceutical Law* (1) Kinner  
Morning.
- 178 *Pharmaceutical Economics* (2) Burdine  
Marketing of drug products, retail pharmacy management, business principles and methods. Morning.
- 181 *Advanced Pharmacology I* (2)  
Special problems and studies in the field of pharmacology. Prerequisite: Pharmacy 166. Prerequisite or concurrent registration: Pharmacy 165. (Not offered in 1948-49.)
- 184 *Advanced Pharmacology II* (2) Gass  
Advanced biologicals and glandular products. Prerequisite: Pharmacy 166. Prerequisite or concurrent registration: Pharmacy 166. Time to be arranged.
- 188 *Seminar* (1 or 2) The Seminar Staff  
A symposium covering the various phases of Pharmacy. Morning.
- 192 *Hospital Pharmacy* (2) Rice, Snow  
Organization and function of hospitals; organization and operation of a hospital pharmacy; professional and sickroom supplies; prescription practice in the University Hospital pharmacy. Prerequisite: Pharmacy 123. (Lecture (1 hour)—morning; laboratory (3 hours)—time to be arranged. (Also offered 1948 summer term.)
- 194 *Manufacturing Pharmacy* (2) Rice, Snow  
The manufacture of bulk pharmaceuticals in the University Hospital pharmacy. Elective for seniors. Lecture (1 hour)—afternoon; laboratory (3 hours)—time to be arranged.

## THIRD GROUP \*

- 201-2 *Survey of Pharmaceutical Literature* (1-1) Briggs  
Assigned library research on the development of pharmaceutical literature.

\* The graduate courses, which are listed in the third group, will not be offered until September 1949.

- 213-14 *Advanced Pharmacognosy II* (2-2)  
Study of vegetable drugs, spices, and foods with special reference to identification and detection of adulteration. Laboratory fee, \$6 a term.
- 215-16 *Advanced Pharmacology III-IV* (3-3)  
Special studies on biological assay methods. Laboratory fee, \$11 a term.
- 222 *Pharmaceutical Chemistry* (2) Bliven  
A study of drugs by therapeutic classes; relationship of structure and action.
- 224 *Pharmaceutical Chemistry* (2) Bliven  
The preparation of official and nonofficial chemical drugs. Laboratory fee, \$12.
- 227 *Food and Drug Analysis* (4) Bliven  
A study of the composition of some common foods and food products. Laboratory fee, \$12.
- 231 *Pharmacology of Anesthetic Drugs* (4)  
Theoretical consideration of the principles of anesthesiology and laboratory study of the action of anesthetic drugs. Laboratory fee, \$12.
- 234 *Pharmacology of Autonomic Drugs* (4)  
A study of action and interaction of drugs principally influencing the autonomic nervous system. Laboratory fee, \$12.
- 236 *Experimental Toxicology* (4)  
Pharmacological action of toxic drugs correlated with chemical and pathological studies. Laboratory fee, \$11.
- 251-52 *Graduate Seminar* (1-1) The Staff  
Current problems and trends in pharmacy.
- 295-96 *Research* (arr.) The Staff  
Investigations of special problems in the major field of study. Credits and fees to be arranged.
- 299-300 *Thesis* (3-3) The Staff  
Laboratory fee, \$14 a term.

## PHILOSOPHY

Charles Edward Gauss, Ph.D., *Associate Professor of Philosophy, Executive Officer*

Bert Thoms, A.M., *Associate in Philosophy*

Mary Carman Rose, A.M., *Associate in Philosophy*

*The major in Philosophy (Field-of-Study).*—The major provides an opportunity for the student to become acquainted with the history and fields of philosophy. For details, see the pamphlet, which is available in the Office of the Dean of Columbian College, or consult the Executive Officer of the Department.

### FIRST GROUP

- 51-52 *Introduction to Philosophy (3-3)* Gauss, Thoms  
A critical introduction to the problems of modern philosophy in relation to scientific and social developments since the Renaissance. Morning and evening sections. (Also offered 1948 summer term.)

### SECOND GROUP

- 111-12 *History of Philosophy (3-3)* Thoms  
A history of western philosophy from Thales to Kant. Morning. (Also offered 1948 summer term.)
- 113 *History of Nineteenth and Twentieth Century Philosophy (3)* Gauss  
Continuation of Philosophy 111-12. Prerequisite: Philosophy 111-12. Evening.
- 121-22 *Logic and Scientific Method (3-3)* Rose  
The study of formal logic and the means of investigation and description employed in the sciences, theory of scientific inference and prediction. Morning. (Also offered 1948 summer term.)
- 131 *Ethics (3)* Rose  
A critical and historical survey of ethical theories; the relation of ethics to social sciences and psychology. Evening.
- 142 *Metaphysics (3)* Rose  
The problems of metaphysics in the light of their development into contemporary forms. Evening.
- 162 *Aesthetics (3)* Gauss  
A critical study of the problems of appreciation and judgment in the arts, and of theories of the process of artistic creation. Emphasis on contemporary arts and criticism. Evening.
- 171-72 *American Philosophy (3-3)* Gauss  
A general history of philosophy in the United States in its relations to European thought. Emphasis on recent thought. Morning.

- 180 *Philosophy of History* (3) Gauss  
Problems of historical knowledge and explanation. Critique of philosophies of history. Offered in 1949-50 and alternate years.
- 199-200 *Proseminar: Readings for the Major* (3-3) Gauss  
Time to be arranged.

## THIRD GROUP

- 201-2 *Readings and Research* (3-3) The Staff  
Advanced readings and reports. Investigation of special problems.  
Time to be arranged.
- 211-12 *Seminar* (3-3) The Staff  
Topic to be announced. Time to be arranged.
- 299-300 *Thesis* (3-3) The Staff



## PHYSICAL EDUCATION FOR MEN \*

William Henry Myers, A.M., *Professor of Physical Education for Men,  
Executive Officer*

Joseph Henry Krupa, M.S., *Associate Professor of Physical Education  
for Men*

Raymond George Hanken, B.S., *Assistant Professor of Physical Educa-  
tion for Men*

Ralph Waldo Foster, A.M., *Lecturer in Physical Education for Men*

Arthur David Zahn, A.B., *Associate in Physical Education for Men*

John Howell Rowland, LL.B., *Associate in Physical Education for Men*

Eugene Hugh Sherman, Sr., B.S., *Associate in Physical Education for  
Men*

This Department includes all the recognized athletic activities of the men students of the University.

Two years of physical education (Physical Education 1-2 and 11-12) are required of all men for graduation, except those students exempt under the regulations stated on page 17.

Upon entering the University, all freshmen or other undergraduate students who have not fulfilled the physical education requirement are given a medical examination. Assignments for medical examinations will be given at the time of registration. The students who satisfy the requirements of the medical examination are then given a physical efficiency test in the general bodily skills of agility, endurance, and strength; and in swimming. If the physical efficiency test is passed, the student may elect from the following list of activities:

Setting up Exercises (stretching exercises)

Body Building Exercises (gymnastic apparatus and weight lifting skills)

Competitive Exercises (modified games and sports)

Swimming Exercises (distance, speed, and life saving)

If the physical efficiency test is not passed, the student will be assigned to a class for training in the above activities in the order listed.

The Department furnishes gymnasium uniforms and personal equipment upon a small payment.

*Minimum requirements for the Dual-Major Teacher's Course.*—See pages 126-27, 128.

*Minimum requirements for the Single-Major Teacher's Course.*—See pages 126-27, 129.

*Minimum requirements for the Physical Education and Recreation Course.*—See pages 126-27, 129.

*Minimum requirements for the minor.*—Prerequisite: Physical Education 42, 43-44, 45-46 (all of these courses may be satisfied by examination), 47, 49, 58. Required: twelve credit hours of second-group courses in physical education, including 103, 107, 113 or 114, and 138.

\* The University is not responsible for injuries received in inter-collegiate or intra-mural games, or in any of the activities of the departments of physical education.

## FIRST GROUP

- 1-2 *Freshman Physical Education\** (2-2) The Staff  
Four periods of supervised activity a week. Locker and towel fee, \$2 a term. Assignment for activities and time to be arranged.
- 11-12 *Sophomore Physical Education\** (2-2) The Staff  
Four periods of supervised activity a week. Locker and towel fee, \$2 a term. Assignment for activities and time to be arranged.
- 42 *Aquatic Sports, Swimming, and Lifesaving* (2) Hanken  
Afternoon.  
Physical Education 42x—same as Physical Education 42, but offered fall term. Afternoon.
- 43-44 *Techniques of Physical Education Motor Activities for Freshmen* (2-2) The Staff  
A critical survey of the fundamental skills, rules, organization, appreciations, and attitudes in these activities. Morning.
- 45-46 *Techniques of Physical Education Motor Activities for Sophomores* (2-2) The Staff  
Afternoon.
- 47 *Introduction to Physical Education* (2) Myers  
An orientation course presenting in elementary form the problems of physical education, vocational analysis, historical implication, scientific foundations, and scope of field. Morning.
- 48 *Introduction to Recreation* (2) Myers  
A course presenting in elementary form the various phases of this field; the role of recreation in modern living; current practices in community recreation work; standards of training, experience, and salary; types of leadership needed. Open to both men and women. Time to be arranged.
- 49 *Human Anatomy* (3) Burtner  
The structure of the human body. Basic course for physical education students. Open to both men and women. Prerequisite: Biology 1-2 or Zoology 1-2. Morning.
- 58 *First Aid and Care of Athletic Injuries* (2) Myers  
Prevention and emergency care of injuries of all types, with special reference to first aid, bandaging, and massage. A practical course. Prerequisite: Physical Education 49; Biology 1-2 or Zoology 1-2. Afternoon.  
Physical Education 58x—same as Physical Education 58, but offered fall term. Afternoon.

\* Freshmen and sophomores in the School of Engineering are required to take two, instead of four, periods of physical education a week for which they receive one, instead of two, credits a term.

## SECOND GROUP

- 102 *Play in Education and Recreation* (3) Atwell  
The significance of play in human growth and development; play activities for elementary schools and recreation programs. Open to both men and women. (Not offered in 1948-49.)
- 103 *History and Principles of Physical Education* (3) Myers  
The interpretation of objectives of physical education activities under leadership, in terms of development, adjustment, and standards. Afternoon.
- 107 *Introduction to Methods in Physical Education* (2) Krupa  
Essential facts of education, psychology, and sociology, with special reference to the problem of method in physical education. Prerequisite: Biology 1-2 or Zoology 1-2; Psychology 1 and 22; Sociology 1 and 2. Afternoon.
- 109-10 *Leadership Organization in the Intramural Program* (2-2) Krupa  
Principles of administration, organization, and supervision of intramural activities in the physical-education program of the junior high schools, senior high schools, and colleges. Prerequisite: Physical Education 47 and 107. Afternoon.
- 113-14 *Directed Teaching in Physical Education Activities* (2-2) The Staff  
Practical demonstration of teaching procedures in adapting activities to the various problems in the secondary school organization. Prerequisite: a minimum of twelve credit hours in physical education; Physical Education 107. Time to be arranged.
- 115-16 *Methods in Major Sport Activities* (2-2) The Staff  
Teaching procedures in adapting major sport activities to the several age-period groups and to individual differences existing in the secondary school organization. Prerequisite: demonstration of a fair degree of skill in these various activities; Physical Education 107. Morning.
- 117-18 *Methods in Minor Sport Activities* (2-2) The Staff  
The scientific procedures in adapting these various activities to a secondary school physical-education program. Prerequisite: demonstration of a fair degree of skill in these various activities; Physical Education 107. Morning.
- 121 *School and Community Health Programs* (3) Krupa  
Health services, healthful environment, health instruction, sources of material for general health knowledge. Open to both men and women. Prerequisite: Biology 1-2 or Zoology 1-2. Evening.



- 122 *Methods and Materials of Health Education* (3) Dennis  
Organization and presentation of health materials for each age level. Prerequisite: Biology 1-2 or Zoology 1-2. Open to both men and women. (Not offered in 1948-49.)
- 123 *Psychological Analysis of Activities* (2) Krupa  
A detailed analysis of the mental processes during participation in physical-education activities. Prerequisite: Psychology 1 and 22 Morning.
- 124 *Applied Anatomy and Physiology* (3) Myers  
The anatomical and physiological effects of physical-education activity. Prerequisite: Physical Education 49; Physiology 115; Biology 1-2 or Zoology 1-2. Time to be arranged.
- 125 *Kinesiology of Sports for the Physically Handicapped* (3) Myers  
Methods employed in the teaching of body mechanics which are adapted to the prevention and correction of physical disabilities. Prerequisite: Physical Education 49 and 124; Biology 1-2 or Zoology 1-2 Morning.
- 131 *Tests and Measurements in Physical Education* (3) Atwell  
Critical survey of tests in physical activities; methods of test construction; elementary statistics. Open to both men and women. (Not offered in 1948-49.)
- 132 *Camp Leadership* (1) Atwell  
Philosophy and administration of modern camps. Open to both men and women. Afternoon.
- 133-34 *Observation and Practice Teaching* (3-3) Myers  
Required of every major student in the junior or senior year. Assignments are made to schools in Washington, D. C., and vicinity. Prerequisite: Education 131, Physical Education 113-14. Fee, \$8 a credit hour. Time to be arranged.
- 138 *Administration and Organization of Physical Education* (3) Myers  
The administration of a unified program; a study of physical education plants, athletic fields, and equipment. Prerequisite: Physical Education 47. Morning.
- 151-52 *Group Leadership Activities* (3-3)  
Fall term: groups and their significance, group work principles and methods, professional and volunteer leaders, organization and development of programs. Winter term: application to social-recreational activities. (Not offered in 1948-49.)



- 153-54 *Group Leadership Methods* (3-3) Foster  
Fall term: organization and direction of physical recreation programs.  
Winter term: organization and direction of non-physical recreational activities, such as arts and crafts, dramatics, group singing, and nature walks. Evening.
- 161 *Community Organization for Recreation* (3) Foster  
Saturday morning.
- 162 *Administration and Supervision of Recreation* (3) Foster  
Saturday morning.

## THIRD GROUP

- 211 *Problems in Physical Education* (3) \_\_\_\_\_  
For experienced teachers. Organization, supervision, and curriculum problems growing out of current issues; program planning policies; competition. Time to be arranged.
- 220 *Problems in Health Education* (3) \_\_\_\_\_  
Health needs; policies and program planning; use of community resources; promising practices in the field. Saturday morning.
- 231 *Evaluation in Physical Education* (3)  
Planning the evaluation program; review of outcomes; analysis of tests and standards; administration and interpretation of tests; guidance. (Offered in 1949-50.)
- 240 *Physical Education for the Atypical* (3)  
Adaptations of activities to meet the special needs of students with physical disabilities resulting from such conditions as postural deviations, cardiac irregularities, operations, and poliomyelitis. (Offered in 1949-50.)

## PHYSICAL EDUCATION FOR WOMEN\*

Ruth Harriet Atwell, A.M., *Professor of Physical Education for Women*  
*Executive Officer*

‡Helen Bennett Lawrence, A.M., *Associate Professor of Physical Education for Women*

Elizabeth Burtner, A.M., *Associate Professor of Physical Education for Women*

Virginia Loretta Dennis, A.M., *Assistant Professor of Physical Education for Women*

Marjorie Tate, A.M., *Assistant Professor of Physical Education for Women*

Catherine Prentiss, B.S., *Instructor in Physical Education for Women*

Ruth McEvoy Dean, *Associate in Physical Education for Women*

Two years of physical education (Physical Education 1-2 and 11-12) are required of all women for graduation, except of students exempt under the regulations stated on page 37. In the fall a complete medical and physical examination are given each student for the purpose of discovering individual needs. Those students whose examinations indicate the desirability of remedial or restricted activity are assigned to a program especially adapted to their needs. This limited program includes moderate sports and individual exercises in small groups under careful supervision.

The required costume for physical education classes may be purchased at the Student Club.

*Maximum requirements for the major.*—For the first two years in Junior College see page 39. For the last two years in the School of Education see pages 129-30. Students desiring to prepare themselves to teach as their subject in addition to physical education may do so by choosing their elective hours in one subject-matter field with the advice of the Dean of the School of Education.

### FIRST GROUP

#### 1-2 *Freshman Physical Education (1-1)*

The Staff

One period of fundamentals of health, physical education, and recreation, and two periods of activity a week.

Fundamentals of health, physical education, and recreation: study of the factors involved in the maintenance of health and in the efficient use of the body, and practice in activities adapted for leisure time. Morning and afternoon sections.

Activities: soccer, riding, field hockey, folk and square dance, modern dance, bowling, ice skating, roller skating, volleyball, basketball, badminton, individual body mechanics, swimming, tennis, softball, archery, golf. Locker and towel fee, § 52 a term. Morning and afternoon sections.

\* The University is not responsible for injuries received in inter-collegiate or intra-mural games, or in any of the activities of the departments of physical education.

‡ On sabbatical leave winter term 1948-49.

§ The locker and towel fee is required for registration in one or more of the activity courses

11-12 *Sophomore Physical Education* (1-1) The Staff  
Activities: same as Physical Education 1-2. Locker and towel fee.\*  
\$2 a term. Two periods a week: morning and afternoon sections.

13-14 *Skill Techniques in Physical Education* The Staff  
*Activities* (2-2)

Practice in basic motor skills for prospective teachers in the following: (1) team sports—field hockey, soccer, basketball, and softball; (2) dance—folk, square, and modern; (3) body exercises; (4) individual and dual sports—swimming, tennis, golf, badminton, archery. Programs are arranged according to individual needs. Locker and towel fee,\* \$2 a term. Afternoon.

15-16 *Methods of Teaching Physical Education* The Staff  
*Activities* (2-2)

(a) Team Sports: teaching procedures, organizations, and equipment; (b) Recreational Dance: methods and materials for teaching folk, square, and social dance. Locker and towel fee,\* \$2 a term. Afternoon.

18 *Kinesiology* (3) Tate

A study of the anatomical mechanism of movement, analysis of the action of the muscles in physical education activities. Open to both men and women. Prerequisite: an approved course in anatomy. Morning.

48 *Introduction to Recreation* (2) Myers

A course presenting in elementary form the various phases of this field: the role of recreation in modern living, current practices in community recreation work, standards of training, experience, and salary, types of leadership needed. Open to both men and women. Time to be arranged.

49 *Human Anatomy* (3) Burtner

The structure of the human body. Basic course for physical education students. Open to both men and women. Prerequisite: Biology 1-2 or Zoology 1-2. Morning.

#### SECOND GROUP

102 *Play in Education and Recreation* (3) Atwell

The significance of play in human growth and development, play activities for elementary schools and recreation programs. Open to both men and women. (Not offered in 1948-49.)

103 *History and Principles of Physical Education* (2) Atwell

Morning.

105-6 *Therapeutic and Remedial Physical Education and Physical Examinations* (3-3) Lawrence

Cause and correction of faulty body mechanics and other abnormal physical conditions, physical-examination methods used in the diagnosis of physical defects, program adaptation to special cases. Prerequisite: Biology 1-2 or Zoology 1-2. Morning.

\*The locker and towel fee is required for registration in one or more of the activity courses.



- 111-12 *Methods of Teaching Physical Education Activities* (2-2)** The Staff  
(a) Individual and Dual Sports: teaching procedures, organization and equipment; (b) Modern Dance: methods and materials for teaching Modern Dance, dance composition. Locker and towel fee,\* \$2 a term. Afternoon.
- 119-20 *Problems in Teaching Physical Education Activities* (2-2)** The Staff  
Advanced material for the teaching of physical education with opportunity for specialization in sports or in dance. (a) Teaching and officiating in individual, dual, and team sports; (b) Advanced technique, projects in teaching and production in the dance. Locker and towel fee,\* \$2 a term. Afternoon.
- 121 *School and Community Health Programs* (3)** Krupa  
Health services, healthful environment, health instruction, sources of material for general health knowledge. Open to both men and women. Prerequisite: Biology 1-2 or Zoology 1-2. Evening.
- 122 *Methods and Materials of Health Instruction* (3)** Dennis  
Organization and presentation of health materials for each age level. Prerequisite: Biology 1-2 or Zoology 1-2. Open to both men and women. (Not offered in 1948-49.)
- 130 *Clinical Work in Therapeutic and Remedial Physical Education* (3)** Lawrence  
Practice in giving physical examinations, analysis of results, prescription and teaching of corrective exercises; observation in orthopedic clinics in city; first aid and care of athletic injuries, with instruction in bandaging and massage. Prerequisite: Physical Education 18, 49, and 105-6. Biology 1-2 or Zoology 1-2. Time to be arranged.
- 131 *Tests and Measurements in Physical Education* (3)** Atwell  
Critical survey of tests in physical activities; methods of test construction; elementary statistics. Open to both men and women. (Not offered in 1948-49.)
- 132 *Camp Leadership* (1)** Atwell  
Philosophy and administration of modern camps. Open to both men and women. Afternoon.
- 133-34 *Observation and Practice Teaching* (3-3)** Atwell  
Directed teaching with weekly conferences in junior and senior high schools. Physical Education 134, practice teaching fee, \$8 a credit hour. Time to be arranged.

\* The locker and towel fee is required for registration in one or more of the activity courses.



135-36 *Survey of Dance History and Dance Forms* (3-3) Burtner

Primitive, Greek, medieval, pre-classic, romantic, and modern periods. Traditional forms, such as polka, schottische, mazurka, and waltz. Fundamental movement techniques, composition and discussion. Designed for students interested in art, drama, and dance. Late afternoon.

140 *Administration of Physical Education* (3) Atwell  
Organization and administration of physical education in elementary and secondary schools and colleges. Prerequisite: Physical Education 103. Time to be arranged.

151-52 *Group Leadership Activities* (3-3)  
Fall term: groups and their significance, group work principles and methods, professional and volunteer leaders, organization and development of programs. Winter term: application to social-recreational activities. (Not offered in 1948-49.)

153-54 *Group Leadership Activities* (3-3) Foster  
Fall term: organization and direction of physical recreation programs. Winter term: organization and direction of special recreational activities, such as arts and crafts, dramatics, group singing, and nature walks. Evening.

161 *Community Organization for Recreation* (3) Foster  
Saturday morning.

162 *Administration and Supervision of Recreation* (3) Foster  
Saturday morning.

THIRD GROUP

211 *Problems in Physical Education* (3) \_\_\_\_\_  
For experienced teachers. Organization, supervision, and curriculum problems growing out of current issues; program planning policies; competition. Time to be arranged.

220 *Problems in Health Education* (3) \_\_\_\_\_  
Health needs, policies and program planning, use of community resources, promising practices in the field. Saturday morning.

231 *Evaluation in Physical Education* (3)  
Planning the evaluation program, review of outcomes, analysis of tests and standards, administration and interpretation of tests, guidance. (Offered in 1949-50.)

240 *Physical Education for the Atypical* (3)  
Adaptations of activities to meet the special needs of students with physical disabilities resulting from such conditions as postural deviations, cardiac irregularities, operations, and poliomyelitis. (Offered in 1949-50.)

## PHYSICAL MEDICINE

Charles Samuel Wise, B.S., M.D., *Associate Professor of Physical Medicine, Executive Officer*

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*, Associate in Physical Medicine*

**350** *Elements of Physical Medicine*

The Staff

Lectures and demonstrations of the various tests and measurements employed in evaluation of physical disability. Emphasis is placed on normal and abnormal peripheral nerve testing (electrodiagnosis), muscle testing, joint range and other physical disability measurements.

**351-52** *Advanced Physical Medicine*

The Staff

Lectures and demonstrations concerning the various techniques, clinical applications of physical medicine, and rehabilitation to be integrated with the teaching of the associated medical and surgical specialties.

**467-68** *Clinical Studies*

The Staff

Clinical teaching and demonstration at the University Hospital.

**485** *Research*

The Staff

Hours to be arranged.

## PHYSICS

Thomas Benjamin Brown, Ph.D., *Professor of Physics, Executive Officer*

Walter Lynn Cheney, Ph.D., *Professor of Physics*

\*George Antony Gamow, Physics D., *Professor of Theoretical Physics*

David Bulkley Langmuir, Ph.D., *Professorial Lecturer in Physics*

George Martin Koehl, A.M., *Associate Professor of Physics*

Robert Randal Meijer, Ph.D., *Associate Professor of Physics*

\_\_\_\_\_, *Assistant Professor of Physics*

Jean McQuiston Coover, A.B., A.M. in Ed., *Instructor in Physics*

Arthur Castner Christman, Jr., B.S., *Instructor in Physics*

Robert Malcolm Stewart, B.S., *Instructor in Physics*

John Ettinger Tompkins, A.B., *Associate in Physics*

Thomas Arthur Wiggins, B.S. in Ed., *Associate in Physics*

Charles Ravitsky, M.S. in Ed., *Associate in Physics*

Albert Prentice Kenyon, A.M., *Associate in Physics*

Philip Krupen, A.M., *Associate in Physics*

John Newell Tevis, A.M., *Associate in Physics*

DeWitt Fisher, A.M., *Associate in Physics*

Edwin Heinrich, A.M., *Associate in Physics*

*The major in Physics (Departmental).*—Prerequisite: Physics 6, 7, 8, and 55; Chemistry 12; Mathematics 19 and 20. Required for the Bachelor of Arts degree: Physics 113-14, 116, 121, 122, 125, and 155; Mathematics 132. Required for Bachelor of Science degree: same as for the Bachelor of Arts degree, plus Mathematics 171.

### FIRST GROUP

#### 5 *General Physics*† (3)

Koehl and Staff

Introduction to the scientific method as used in the study of energy and forces; physical properties of solids, liquids, and gases; phenomena of heat and light. Prerequisite: high school algebra and plane geometry. Material fee, \$6. Lecture (1 hour); recitation (1 hour); laboratory (2½ hours). Morning, afternoon, and evening sections.

Physics 5x—same as Physics 5, but offered winter term. Lecture (1 hour)—morning and evening sections; recitation (1 hour)—morning, afternoon, and evening sections; laboratory (2½ hours)—morning, afternoon, and evening sections.

#### 6 *General Physics*‡ (3)

Meijer and Staff

Mechanics, wave-motion, sound, and the theory of optical instruments. Offered winter term. Prerequisite: Physics 5; high school algebra and plane geometry. Material fee, \$6. Lecture (1 hour); recitation (1 hour); laboratory (2½ hours). Morning, afternoon, and evening sections. (Also offered 1948 summer term.)

\* On sabbatical leave fall term 1948-49

† Physics 5, 6, 7, and 8 constitute the basic course in physics. Students who have credit for a high school physics which included individual laboratory work may enter Physics 6 or 7 only after passing a qualifying examination. (See the University calendar for the exact date of the qualifying examination which is given in September, January and June.) All other students must complete Physics 5 before entering Physics 6 or 7.



- 7 *General Physics\** (3) Meijer and Staff  
Elementary electricity and magnetism. Offered fall term. Prerequisite: Physics 5; high school algebra and plane geometry. Material fee, \$6. Lecture (1 hour); recitation (1 hour); laboratory (2½ hours). Morning, afternoon, and evening sections. (Also offered 1948 summer term.)
- 8 *General Physics\** (3) Cheney and Staff  
*Foundations of Modern Physics.*—The experimental evidence concerning light waves and quanta, X-rays, and radiowaves; electrons, protons, and other elementary particles; atomic and molecular structure; and nuclear physics. Prerequisite: Physics 6 and 7. Morning and evening sections. (Also offered 1948 summer term.)
- 55 *Physical Measurements\** (2) Cheney and Staff  
Theory and use of the methods of precise measurement in the several fields of physics. Prerequisite: Physics 6 and 7. Prerequisite or concurrent registration: Mathematics 19. Material fee, \$6. Lecture (1 hour)—afternoon and evening sections; laboratory (2½ hours)—morning, afternoon, and evening sections. (Also offered 1948 summer term.)

## SECOND GROUP

- 113-14 *Atomic and Molecular Physics* (3-3) Meijer  
Constituent particles of matter, elements of the quantum theory, spectra and structure of atoms and molecules, and the kinetic theory and the properties of macroscopic bodies. Prerequisite: Physics 8; Mathematics 20. Evening.
- 116 *Optics* (3) Koehl  
Geometrical optics; elementary theory of wave motions; interference, diffraction, polarization, and dispersion of light; laws of black-body radiation. Prerequisite: Physics 8; Mathematics 20. 1949-50 and alternate years.
- 121 *Mechanics* (3) Koehl  
Statics, elasticity, dynamics of solids and fluids, and gravitation. Prerequisite: Physics 6; Mathematics 20. Morning.
- 122 *Heat and Thermodynamics* (3) Cheney  
Thermometry, calorimetry, heat conduction, the laws of thermodynamics with application to physical systems. Prerequisite: Physics 8; Mathematics 20. Morning.
- 125 *Principles of Electricity* (3) Cheney  
Fundamental phenomena of electricity and magnetism; circuit theory, including elementary alternating-current circuits; terrestrial magnetism; atmospheric electricity. Prerequisite: Physics 8; Mathematics 20. Evening.

\* Physics 5, 6, 7, and 8 constitute the basic course in physics. Students who have credit for a high school physics which included individual laboratory work may enter Physics 6 or 7 only after passing a qualifying examination. (See the University calendar for the exact date of the qualifying examination which is given in September, January and June.) All other students must complete Physics 5 before entering Physics 6 or 7.



- 128 *Sound* (3) Cheney  
Production, propagation, and detection of sound waves; vibrations of sounding bodies; acoustic instruments and acoustic measurements. Prerequisite: Physics 8; Mathematics 20. 1949-50 and alternate years. Summer term 1948.
- 132 *Electronics* (3) Brown  
The phenomena of electron emission from solids; the physical properties of electron tubes, and the principles underlying their basic applications. Prerequisite: Physics 8 and 55, and Physics 125 or Electrical Engineering 10. Material fee, \$6. Lecture (2 hours), laboratory (2 hours)—afternoon and evening sections. (Also offered 1948 summer term.)
- 133 *Electronic Circuits* (3) Brown  
A continuation of Physics 132. Includes basic radiofrequency applications of electron tubes, and special types of tubes such as klystrons, resonators, and magnetrons. Lectures and problems. Prerequisite: Physics 132; Electrical Engineering 101, 118. Time to be arranged. (Also offered 1948 summer term.)
- 143-44 *Modern Experimental Physics* (3-3) Brown  
Experimental methods for the study of the physical properties of electrons, atoms, and molecules. Prerequisite: Physics 8. Material fee, \$6 a term. (Not offered in 1948-49.)
- 155 *Advanced Physical Measurements* (3) Brown  
Optional programs of experiments in optics, mechanics, electricity and magnetism, or radiofrequency measurements. Corresponding prerequisites are Physics 116, 121, 125, and 125 plus 132. In addition, Physics 55 as a general prerequisite. Material fee, \$6. Afternoon and Saturday sections.
- 161x *Nuclear Physics* (3) Gamow  
Radioactivity, nuclear transformations, new particles; astrophysical applications. Prerequisite: Physics 113-14. Evening.

## THIRD GROUP

- 206 *Current Topics in Modern Physics* (1) Gamow  
Prerequisite: Physics 113-14. (Not offered in 1948-49.)
- 211-12 *Classical Physical Theory* (3-3) Brown, Cheney  
Fall term: dynamics of systems of particles and of rigid bodies; generalized coordinates. Winter term: dynamics of elastic bodies and fluids; electromagnetic field theory. Prerequisite: Physics 121, 122, and 125; Mathematics 132 and 171. Evening.
- 213-14 *Electromagnetic Radiation* (3-3) Brown  
Electromagnetic theory as applied to light and radio waves, with especial consideration given to "micro-waves". Prerequisite: Physics 125 and Mathematics 132, or the equivalent. (Offered in 1949-50 and alternate years.)

**221-22 Quantum Mechanics (3-3)**

Formulation and application of laws holding within the atom, the relation of these laws to those of classical physics. Prerequisite: Physics 113-14 and 211-12. Evening.

**232 Advanced Electronics (3)**

Brown

Theory and design of electron tubes and electronic circuits. Lectures and problems. Prerequisite: Physics 132. Evening.

**235 Electron Dynamics (2)**

Langmuir

Emission of electrons; behavior of electrons in free spaces; behavior in axial fields, as in electron-optics; effects of time variable. Prerequisite: Physics 132; Mathematics 132. Late afternoon.

**255-56 Advanced Laboratory (3-3)**

Brown

Special topics. One term of this course is required of all Master's candidates in physics. Not open to undergraduates. Material fee, \$6 a term. Afternoon and Saturday sections.

**261-62 Theory of the Atomic Nucleus (3-3)**

Gamow

General theory of nuclear structure; electromagnetic radiation of nuclei; kinetics of nuclear reactions; fission-process and nuclear chain reactions; theory of nuclear forces. (Not offered in 1948-49.)

**266 Relativity and Gravitational Theory (3)**

Gamow

Basic principles, relativistic mechanics and electrodynamics, theory of gravitation, cosmology. Prerequisite: Physics 211-12. Evening.

**275 Structure of Stars (3)**

Gamow

Prerequisite: Physics 161 and 221. (Not offered in 1948-49.)

**291-92 Seminar: Recent Developments in Physics (1-1)**

The Staff

Individual investigations of special problems. All students registered for a Master's degree in physics are expected to attend this seminar during residence for the degree, and to take part in its programs. Credit for participation in the seminar work may be obtained by registering for this course during the last two terms of residence; this credit, however, is based upon the seminar work during the entire period of residence. Alternate weeks, evening.

**299-300 Thesis (3-3)**

The Staff

## PHYSIOLOGY

Errett Cyril Albritton, A.B., M.D., *Professor of Physiology, Executive Officer*

Chester Elwood Leese, Ph.D., *Professor of Physiology*

Abraham Dury, Ph.D., *Assistant Professor of Physiology*

Hyman Erwin Steinman, M.D., *Teaching Fellow in Physiology*

115 *Physiology* (3) Leese and Staff

Lectures for academic students covering the fundamentals of Physiology in its various subdivisions. Prerequisites: one year of general science or one term of a biological science. Section A: Tues., Thurs., and Sat., 9:10 A.M.; section B: Tues. and Thurs., 5:10 to 6:25 P.M.

117 *Experimental Physiology* (1) Dury and Staff

Laboratory exercises in the fundamentals of physiology, for academic students. Prerequisite or concurrent registration: Physiology 115 or the equivalent. Material fee, \$12. Sat., 10:10 A.M. to 1:00 P.M.

120 *Physiology of Endocrine Activity* (2) Albritton

The circulatory, metabolic, reproductive, growth, and other adaptations, immediate and long term, accompanying and affecting endocrine activity. May be taken for two credits with additional work. Prerequisite: Physiology 115 or the equivalent. Tues. and Thurs., 5:10 P.M.

130 *The Psycho-physiology of Personality* (2) Leese

Lectures on the genesis and expression of personality, with emphasis on the physiological approach. Prerequisite: Physiology 115 or the equivalent and general psychology. Tues. and Thurs., 6:10 P.M.

131 *Advanced Physiology of Circulation and Respiration* (2) Albritton and Staff

Lectures on blood, heart, circulation, respiration, and acid-base balance. Two hours a week, to be arranged.

134 *Advanced Physiology of Nutrition, Metabolism, and Excretion* (2) Parrish and Staff

Lectures on nutrition, digestion, metabolism, excretion, temperature regulation, and water balance. Two hours a week, to be arranged.

136 *Advanced Physiology of the Endocrine Glands and Reproduction* (1) Dury and Staff

Lectures on ductless glands, hormones, humoral agents, and reproduction. One hour a week, to be arranged.

- 138 *Advanced Physiology of the Neuro-Muscular System* (2) Leese and Staff  
Lectures on sensory reception, central nervous processes, somatic and visceral motor activity, and the behavior of smooth and striped muscle. Two hours a week, to be arranged.
- 140 *Advanced Experimental Physiology* (3) The Staff  
Laboratory work only. Correlated with the lectures in courses 131-138. Nine hours a week, to be arranged.
- 149-50 *Advanced Physiology* The Staff  
One hundred physiological lectures and one hundred thirty laboratory hours devoted to the major divisions of the subject. For Medical Students. Mon., Wed., and Fri., 12:00 to 5:00 P.M.; Sat., 9:00 to 11:00 A.M.
- 159-60 *Experimental Method* (1-1) Albritton  
Design of controlled experiments in medical or biological investigation; errors in design; criticism and judgment of evidence, and tests of the statistical significance of experimental results. Sat., 12:00 to 1:00 P.M.
- 169-70 *Problems in Physiology* Albritton and Staff  
Hours and credits to be arranged.
- 179-80 *Physiology Seminar* (1-1) The Staff  
Weekly throughout the year.
- 295-96 *Research* Albritton, Leese, and Staff  
Hours and credits to be arranged.
- 299-300 *Thesis* (3-3) Albritton, Leese



## POLITICAL SCIENCE

Warren Reed West, Ph.D., *Professor of Political Science*

\*William Crane Johnstone, Jr., Ph.D., *Professor of Political Science*

John Albert Tillema, Ph.D., LL.M., S.J.D., *Professor of Political Science*

John Withrow Brewer, Ph.D., *Professor of International Law, Executive Officer*

Elmer Boyd Staats, Ph.D., *Professorial Lecturer on Public Administration*

Wolfgang Herbert Kraus, Dr. Jur., S.J.D., *Professorial Lecturer in Political Science*

Allen Dailey Manvel, A.B., *Lecturer on Public Administration*

Fred Latimer Hadsel, Ph.D., *Lecturer in Political Science*

William George Torpey, Ph.D., *Lecturer on Public Administration*

Achilles Nicholas Sakell, Ph.D., *Lecturer in Political Science*

Jonathan Stoddart, A.M., *Instructor in Political Science*

*Minimum requirements for the major in Political Science (Departmental).—*Prerequisite: Political Science 9-10. Required: twenty-four credit hours from the following groups distributed as follows: six hours from Group A; six hours from Group B; six hours from Group A, B, or C; six hours from Group A, B, C, or D.

Group A: Political Science 111, 112, 117-18, 121-22. Group B: Political Science 171, 172, 181-82. Group C: Political Science 115, 116, 141, 151-52, 161-62, 175-76, 192, 193, 194. Group D: Political Science 127, 128, 129, 130.

Students interested in preparing for graduate work in Public Administration will consult the Executive Officer of the Department for modifications of the above requirements.

### FIRST GROUP

- 9-10 *Government of the United States (3-3)* The Staff  
Morning and evening sections. (Also offered 1948 summer term.)  
Political Science 10x—same as Political Science 10, but offered fall term. Afternoon.

### SECOND GROUP

- 111 *The Governments of Europe: England, France, and Switzerland (3)* Kraus  
Evening. (Also offered 1948 summer term.)
- 112 *The Governments of Europe: Soviet Union, Germany, and Italy (3)* Kraus  
Evening. (Also offered 1948 summer term.)

\* On leave of absence 1948-49.

- |        |   |                 |
|--------|---|-----------------|
| 115    | <i>Municipal Government</i> (3)   | _____           |
|        | Morning.  |                 |
| 116    | <i>Political Parties</i> (3)  | _____           |
|        | Morning.  |                 |
| 117-18 | <i>Political Theory</i> (3-3)   | Kraus           |
|        | Morning. (Also offered 1948 summer term—Political Science 117 (3).)                       |                 |
| 121-22 | <i>The Constitution of the United States</i> (3-3)  | West            |
|        | Evening.  |                 |
| 127    | <i>Commercial Law: Contracts, Agency, and Bailments</i> (3)                               | Tillema         |
|        | Morning and evening sections. (Also offered 1948 summer term.)                            |                 |
| 128    | <i>Commercial Law: Negotiable Instruments, Property, Sales, Mortgages</i> (3)             | Tillema         |
|        | Morning and evening sections.   |                 |
| 129    | <i>Law in Relation to the Form of Business Units</i> (3)                                  | Tillema         |
|        | Morning. (Also offered 1948 summer term.)   |                 |
|        | Political Science 129x—same as Political Science 129, but offered winter term. Afternoon. |                 |
| 130    | <i>Maritime Law</i> (3)   | Tillema         |
|        | Morning.  |                 |
| 141x   | <i>The Development of Legal Institutions</i> (3)  | Brewer          |
|        | Evening.  |                 |
| 151-52 | <i>Public Administration</i> (3-3)  | _____           |
|        | Morning. (Also offered 1948 summer term—Political Science 151 (3).)                       |                 |
| 161-62 | <i>Administrative Law</i> (3-3)   | Tillema         |
|        | Political Science 161, morning. (Political Science 162, not offered in 1948-49.)          |                 |
| 171    | <i>International Politics</i> (3)   | Stoddart, _____ |
|        | Morning and evening sections. (Also offered 1948 summer term.)                            |                 |
| 172    | <i>International Organization: the United Nations</i> (3)                                 | Stoddart        |
|        | Morning and evening sections. (Also offered 1948 summer term.)                            |                 |
| 175    | <i>International Politics in the Western Hemisphere</i> (3)                               | Stoddart        |
|        | Morning.  |                 |
| 176    | <i>Current Trends in Latin American Politics and Government</i> (3)                       | Stoddart        |
|        | Morning.  |                 |

- 181-82 *International Law* (3-3) Brewer, Sakell  
Morning and evening sections. (Also offered 1948 summer term.)
- 192 *The Near East: Politics and Government since 1878* (3) Johnstone  
(Not offered in 1948-49.)
- 193 *Reading Course in Far Eastern Governments: China, India, Japan, and Colonial Dependencies* (3) Johnstone  
(Not offered in 1948-49.)
- 194 *Far Eastern Politics: Contemporary International Relations in the Pacific Area* (3) \_\_\_\_\_  
Evening.
- 199-200 *Proseminar: Readings for International Relations Major* (3-3) Brewer  
Open only to Columbian College majors in this field. Time to be arranged.

## THIRD GROUP

- 209-10 *Seminar: the Legislative Process* (3-3) West  
Afternoon.
- 212 *Seminar: Comparative Government* (3) Kraus  
Evening.
- 214 *The Soviet Union: Politics and Government* (3) \_\_\_\_\_  
(Not offered in 1948-49.)
- 217 *Seminar: Political Theory* (3) Kraus  
Evening.
- \*239 *Seminar: Personnel Administration* (3) Torpey  
Evening.
- \*240 *Seminar: Problems in Personnel Management* (3) Torpey  
Evening. (Also offered 1948 summer term.)
- \*252 *Budgetary and Financial Administration* (3) Manvel  
Evening.
- \*253 *Staff Functions in Government Administration* (3) Manvel  
Evening.
- \*255 *Seminar: Principles and Problems of Administration* (3) Staats  
Evening.

\* Primarily for majors in the School of Government.

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|---------|---|------------|
| *260    | <i>Seminar: Administration of Major Governmental Programs (3)</i><br>Evening.   | Staats     |
| 271-72  | <i>Problems in International Politics and Organization (3-3)</i><br>Evening. (Also offered 1948 summer term—Political Science 272 (3).) | Hadsel     |
| *273    | <i>Seminar: International Administration (3)</i><br>(Not offered in 1948-49.)   |            |
| *274    | <i>Seminar: Objectives and Methods of Foreign Policy (3)</i><br>Evening.  | Schoenfeld |
| 281-82  | <i>Seminar: International Law and Relations (3-3)</i><br>Afternoon. (Also offered 1948 summer term—Political Science 281 (3).)          | Brewer     |
| 293-94  | <i>Seminar: International Politics and Government in the Pacific Area (3-3)</i><br>Evening.   | Johnstone  |
| 299-300 | <i>Thesis (3-3)</i>   | The Staff  |

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\* Primarily for majors in the School of Government.



## PSYCHIATRY

Winfred Overholser, A.B., M.D., Sc.D., *Professor of Psychiatry, Executive Officer*

Roscoe Willis Hall, Ph.B., M.D., *Clinical Professor of Psychiatry*

Solomon Katzenelbogen, M.D., *Clinical Professor of Psychiatry*

Addison McGuire Duval, M.D., *Clinical Professor of Psychiatry*

Sidney Berman, B.S., M.D., *Assistant Clinical Professor of Psychiatry*

Morris Kleinerman, Ch.D., M.B., *Assistant Clinical Professor of Psychiatry*

Harriet Elizabeth Twombly, A.B., M.D., *Associate in Psychiatry*

Samuel Alexander Silk, Phar.G., M.D., *Associate in Psychiatry*

Edgar Deucher Griffin, A.B., M.D., *Associate in Psychiatry*

Isabelle Kendig, Ph.D., *Associate in Psychiatry*

Henry Prather Laughlin, B.S., M.D., *Associate in Psychiatry*

Marshall deGraffenried Ruffin, B.S., M.D., *Associate in Psychiatry*

William Green Cushard, M.D., *Clinical Instructor in Psychiatry*

### 136 *Introductory Medical Psychology* Overholser and Staff

Theoretical and practical aspects of the constitution, character, and personality as related to medicine; psychological features in various diseases; types of character development and their ways of adaptation. One hour a week.

### 278 *Psychopathology* Hall

Manifestations and understanding of various abnormal mental mechanisms and reaction-types, illustrated with suitable case material, and preceded by history of development of psychopathology. One hour a week.

### 366 *Psychiatry* Overholser

Major psychoses, illustrated by the presentation of clinical material and utilized for the purpose of explaining the fundamental psychological mechanisms involved. St. Elizabeths Hospital. One hour a week.

### 368 *Psychosomatic Aspects of General Medicine* Katzenelbogen

Somatic disorders of functional origin versus organic structural disorders. The role of personality reactions in somatic disorders (illustrative cases). St. Elizabeths Hospital. One hour a week.

### 427-28 *Psychological Techniques in Psychiatric Practice* Kendig

Discussion of psychological concepts and tools available for determination of intellectual level, personality structure, functional impairment, and organic deterioration. One hour a week for four weeks.

473-74 *Ward Work*

The Staff

Personal mental examinations and formal written report of the examination of the various types of psychoses, followed by a review of the cases with an instructor. St. Elizabeths Hospital. Two hours a week.

475 *Psychoneurosis*

Duval

The clinical aspects, the etiology, the psychopathology, and the treatment of the various psychoneuroses. One hour a week for twelve weeks.

## PSYCHOLOGY

- \*Mitchell Dreese, Ph.D., *Professor of Educational Psychology*  
 Thelma Hunt, Ph.D., M.D., *Professor of Psychology, Executive Officer*  
 ‡Henry Furness Hubbard, Ph.D., *Adjunct Professor of Psychology*  
 Clarence Daniel Leatherman, Ph.D., *Professorial Lecturer in Psychology*  
 Curtis Edward Tuthill, Ph.D., *Assistant Professor of Psychology*  
 Willard Caldwell, Ph.D., *Assistant Professor of Psychology*  
 Ewing Lakin Phillips, A.M., *Assistant Professor of Psychology*  
 James Mosel, A.M., *Assistant Professor of Psychology*  
 John Bissell Carroll, Ph.D., *Lecturer in Psychology*  
 Margaret Ives, Ph.D., *Lecturer in Psychology*  
 Isabelle Kendig, Ph.D., *Lecturer in Psychology*

*Minimum requirements for the major in Psychology (Departmental).—Psychology 1, 2 or 22, 29 or 151, 98, 131, 191, and 196; Physiology 115; Statistics 53 and nine credit hours elective in psychology or closely related fields or departments, if specifically approved in advance by the Department of Psychology.*

For requirements for graduate degrees, consult the Executive Officer.

### FIRST GROUP

- 1 *General Psychology*§ (3) The Staff  
 The fundamental principles underlying human behavior. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)  
 Psychology 1x—same as Psychology 1, but offered winter term. Morning and evening sections.
- 2 *Applied Psychology* (3) Mosel and Staff  
 The applications of psychology in business, industry, medicine, law, guidance, education, and social problems. Morning and evening sections. (Also offered 1948 summer term.)  
 Psychology 2x—same as Psychology 2, but offered fall term. Morning and evening sections.
- 22 *Introduction to Educational Psychology* (3) \_\_\_\_\_  
 Consideration of individual and group differences, adjustments, and the psychology of learning in relation to education and training. Morning. (Also offered 1948 summer term.)  
 Psychology 22x—same as Psychology 22, but offered fall term. Evening.
- 29 *Child Psychology* (3) Phillips  
 Formerly, Psychology 125. A genetic approach to the study of the child. Morning. (Also offered 1948 summer term.)  
 Psychology 29x—same as Psychology 29, but offered winter term. Evening.

\* On sabbatical leave fall term 1948-49.

‡ On leave of absence 1948-49.

§ Psychology 1 is prerequisite to all other courses in Psychology.

- 98 *Abnormal Psychology* (3) Hunt  
 Formerly, Psychology 116. The causes, diagnosis, treatment, and prevention of the various types of maladjustments and mental disorders. Prerequisite: 6 credits in psychology. Morning. (Also offered 1948 summer term.)  
 Psychology 98x—same as Psychology 98, but offered fall term. Morning and evening sections.

#### SECOND GROUP \*

- 121 *Educational Psychology* (3) \_\_\_\_\_  
 Advanced course in educational psychology. Open each term on the individual study plan to a limited number of students. Time to be arranged.
- 131 *Psychological Tests* (3) Hunt  
 A survey of psychological tests and their more common uses in business, industry, government, law, medicine, and education. Material fee, \$2.25. Morning. (Also offered 1948 summer term.)  
 Psychology 131x—same as Psychology 131, but offered winter term. Evening.
- 144 *Personnel Psychology* (3) Mosel  
 The applications of psychology to personnel work in education, business, industry, and government. Evening. (Also offered 1948 summer term.)  
 Psychology 144x—same as Psychology 144, but offered fall term. Evening.
- 151 *Social Psychology* (3) Tuthill  
 The social foundations of attitudes and behavior. Individual adjustment to group situations, such as the family, school, fraternity, and occupation. The psychological bases of race prejudice, nationalism, and war. Morning. (Also offered 1948 summer term.)  
 Psychology 151x—same as Psychology 151, but offered winter term. Evening.
- 162 *Comparative Psychology* (3) Caldwell  
 A survey of psychological processes in infrahuman organisms, with special emphasis on the evolution of animal behavior from the lowest forms to man. Accompanied by laboratory work. Material fee, \$6. Morning.  
 Psychology 162x—same as Psychology 162, but offered fall term. Morning.
- 171 *Psychology of Personality* (3) Caldwell  
 Contemporary approaches to the study of personality. Prerequisite: 12 credits in psychology, including Abnormal Psychology. Afternoon and evening sections. (Also offered 1948 summer term.)

\* Six credits in first group courses are prerequisite to all second group courses.



- 191 *Experimental Psychology* (3) Tuthill  
The application of experimental methods to various psychological problems. Prerequisite: 12 credits in psychology. Material fee, \$6. Afternoon. (Also offered 1948 summer term.)

Psychology 191x—same as Psychology 191, but offered winter term. Afternoon and evening sections.

- 192 *Problems in Experimental Psychology* (3) Tuthill  
Opportunity for work on individual experimental projects. Prerequisite: Psychology 191. Open each term to a small number of students by permission of the instructor. Time to be arranged.

Psychology 192x—same as Psychology 192, but offered fall term. Time to be arranged.

- 193-94 *Readings in Psychology* (3-3) The Staff  
Supervised readings on specific topics in psychology; with conferences; for undergraduate majors. Open only to seniors with 18 or more credits in psychology with a quality point index of 3.00 or higher. Special permission of staff member under whom course is to be taken is necessary. Time to be arranged. (Also offered 1948 summer term.)

- 196 *History and Systems of Psychology* (3) Carroll  
A survey of the contemporary schools of psychology. Prerequisite: 12 credits in psychology. Morning and evening sections. (Also offered 1948 summer term.)

#### THIRD GROUP \*

- 201X *Seminar: Advanced General Psychology* (3) Carroll  
General review of the field for graduate students with an intensive study of selected problems. Required in all graduate programs. Saturday morning.

- 202X *Psychological Research Methods and Procedures* (3) Carroll  
Required of all Master of Arts candidates in psychology. Prerequisites: Experiment Psychology and Statistics. Evening.

- 205-6 *Field Work in Psychology* (3-3) The Staff  
Supervised field work in agencies providing psychological service. Admission by permission of the Executive Officer of the Department. Time to be arranged. (Also offered 1948 summer term.)

- 207-8 *Readings in Psychology for Graduate Students* (3-3) The Staff  
Supervised readings with conferences on specified topics in psychology. Time to be arranged. (Also offered 1948 summer term.)

- 209 *Seminar: Psychology of Motivation* (3) —————  
Afternoon.

\* Open only to graduate students with 18 or more credits in psychology, except by special permission of Instructor and Executive Officer of the Department.

- 212 *Seminar: Personality Evaluation by Projective Techniques* (3) Kendig  
Evening.
- 213 *Seminar: Clinical Psychology* (3) Ives  
An intensive study of some problem in the field of clinical psychology.  
Evening.
- 218 *Structural Factors in Behavior* (3) Hunt  
A study of the endocrine glands as they affect behavior. (Not offered  
in 1948-49.)
- 221X *Seminar: Educational Psychology* (3) Dreese  
A survey of recent literature on individual differences and learning  
with emphasis on their educational applications. Evening.
- 223 *Seminar: Learning* (3) \_\_\_\_\_  
Covers theories of learning. Evening.
- 225 *Seminar: Mental Hygiene* (3) Phillips  
A study of problems in the field of mental health and prevention of  
maladjustments and mental disease. Saturday morning.
- 226 *Seminar: Clinical Psychology of Childhood* (3)  
A study of behavior problems, personality disturbances, and mental  
disorders of children.  
Summer term 1948.
- 227 *Seminar: Educational and Vocational Guidance* (3) Dreese  
An introduction to the techniques of educational and vocational guid-  
ance and the application of these procedures in various types of  
guidance agencies. Prerequisite: Educational or psychological meas-  
urements. Evening. (Also offered 1948 summer term.)
- 228 *Seminar: Techniques of Counseling* (3) Dreese  
A detailed study of counseling techniques and the types of counsel-  
ing problems likely to confront teachers, employee counselors, voca-  
tional counselors, and veterans' advisers. Prerequisite: Psychology  
227 or the equivalent. Evening.
- 229X *Seminar: Occupational and Educational Information* (3) \_\_\_\_\_  
Designed to acquaint vocational and educational counselors with the  
basic occupational and educational information necessary in counsel-  
ing. Sources of data and techniques of collecting, analyzing, and  
disseminating for purposes of guidance. Evening.
- 231 *Test Construction* (3) Hunt  
The principles underlying test construction; statistical techniques in  
the construction, evaluation, and standardization of psychological,  
educational, and vocational tests. Prerequisite: a course in tests and  
measurements and a course in statistics. Evening. (Also offered 1948  
summer term.)

- 232 *Research: Test Construction* (3) Hunt  
Individual projects in construction and evaluation of psychological, educational, or vocational tests. Prerequisite: Psychology 231. Evening.
- 233 *Individual Psychological Testing* (3) Phillips  
Instruction and practice in giving of the Binet test, Wechsler-Bellevue Test, and other individual psychological tests. Prerequisite: an elementary course in tests and measurements. Material fee, \$2.25. Afternoon.  
Psychology 233x—same as Psychology 233, but offered winter term. Afternoon.
- 234 *Seminar: Test Theory* (3) \_\_\_\_\_  
Evening.
- 242x *Seminar: Psychological Principles of Personnel Management* (3) Leatherman  
A study of the applications of psychology to various personnel procedures, for those interested in either government or industrial personnel work. Prerequisite: Psychology 144 or the equivalent. Evening. (Also offered 1948 summer term.)
- 255x *Seminar: Techniques of Opinion and Attitude Measurement* (3) Tuthill  
Methods of attitude measurement (interviews, questionnaires, scales, polls) as currently used by private and governmental investigators. The place of attitude studies in schools, industry, government, etc. Evening.
- 295-96 *Research in Psychology* (arr.) The Staff  
Individual research by student, carried out under supervision of staff member. Time and credits to be arranged. (Also offered 1948 summer term.)
- 299-300 *Thesis* (3-3) The Staff

## RADIOLOGY

William Stanbro, M.D., *Associate Professor of Radiology, Executive Officer*

Peter Diacoumis Comanduras, B.S., M.D., M.S., *Assistant Clinical Professor of Radiology*

213 *Basic Radiology* The Staff  
Orientation lectures in X-ray physics.

341-42 *Radiological Diagnosis* The Staff  
Lectures in conjunction with the course in Physical Diagnosis.

358 *Advanced Radiological Diagnosis* The Staff  
Lectures and discussions.

449 *Clinical Studies* The Staff  
Students assigned in rotation on a full-time basis for a specific period to the X-ray Department.

478 *Research* The Staff  
Hours to be arranged.



## RELIGION

Lawrence Daniel Folkemer, Ph.D., *Associate Professor of Religion, Executive Officer*

John Walter Beardslee III, A.B., B.D., *Assistant Professor of Religion*

*Minimum requirements for the major in Religion (Departmental).*—Twenty-four credit hours beyond first-group courses.

### FIRST GROUP

9 *The Old Testament* (3) Beardslee

A historical and literary approach to the study of the books of the Old Testament with special consideration given to the development of religious ideas, institutions, and outstanding personalities. Morning.

10 *The New Testament* (3) Beardslee

A study of the literature of the New Testament from the standpoint of occasion, purpose, dominant ideas, and permanent values. Special consideration given to life in the primitive Christian Church. Morning. (Also offered 1948 summer term.)

59-60 *History of Religions* (3-3) Folkemer

Fall term: primitive and eastern religions—Egyptian religion, Confucianism, Taoism, Buddhism and sects, Hinduism, and Shintoism—considering environment, personalities, religious thought, cultus, ethics, and modern trends. Winter term: Judaism, Christianity, and Islam; analysis of early development, thought, life, institutions, and expansion. Recent issues and trends examined. Morning.

### SECOND GROUP

101 *The Prophets, Their Times and Their Message* (3) Beardslee

The development of prophetism in the Old Testament; cultural, economic, psychological, and religious factors in the movement; elements of lasting value in the prophetic teaching. A few of the prophets will be selected for particular study. Morning. (Also offered 1948 summer term.)

102 *The Life and Significance of Jesus* (3) Beardslee

A detailed study of the life and teachings of Jesus on the basis of a comparative analysis of the Gospel records; the significance of the message of Jesus for our own times. Morning.

143 *Philosophy of Religion* (3) Folkemer

A constructive investigation of the evidences of religious knowledge and experience, the nature of God and man, the problem of evil, freedom of the will, eternal life, the destiny of human society. Afternoon and evening sections.

172 *Religion in American Life* (3)

Folkemer

Growth of religious bodies and institutions in American culture; the heritage of religious freedom and diversity, revivalism and education, science and religious thought, divisions and cooperative movements in religion. Afternoon and evening sections.

185-86 *Classics of Religious Literature* (3-3)

Folkemer

Offered in 1949-50.

## ROMANCE LANGUAGES AND LITERATURES

Henry Grattan Doyle, A.M., LL.D., Litt.D., *Professor of Romance Languages*

Merle Irving Protzman, Ph.D., *Professor of Romance Languages*

Louis Clark Keating, Ph.D., *Professor of Romance Languages, Executive Officer*

Alan Thomas Deibert, A.M., *Professor of Romance Languages*

Irene Cornwell, Ph.D., *Associate Professor of French*

Antonio Alonso, A.M., *Associate Professor of Spanish*

Carey DeWitt Eldridge, Ph.D., *Assistant Professor of Romance Languages*

Alberto Vázquez, Ph.D., *Lecturer on Spanish American Literature*

Jacqueline Marie-Leonie Chevallaz, A.M., *Instructor in French*

Rafael Supervía, Doctor en Derecho, *Instructor in Spanish*

Elizabeth Uelsmann, A.M., *Instructor in Spanish*

Felicia Miller, A.M., *Instructor in Spanish*

Marie-Therese Grandjean, L.-ès.-L., *Instructor in French*

Doris Annie Percival, Ph.D., *Instructor in French*

Julia Elizabeth Hicks, A.M., *Instructor in Romance Languages*

Ethel Atchison, A.M., *Associate in Romance Languages*

Lloyd William Buhrman, A.M., *Associate in Spanish*

José Sylvado Bueno, A.M., *Associate in Portuguese*

Roberto Daniel Meléndez, A.B., *Associate in Spanish*

*The majors.*—The Department of Romance Languages offers three majors administered under the field-of-study plan, and provides proseminars intended to assist the student in preparing himself for the respective major examinations. These are: (1) a *Major in French Literature* (proseminar: French 199-200); (2) a *Major in Spanish Literature* (proseminar: Spanish 199-200); and (3) a *Major in Spanish American Literature* (proseminar: Spanish 197-98). The members of the staff in charge of the respective proseminars are designated as advisers in the respective fields. In these majors, emphasis will be laid upon the political, social, and cultural background of the literature studied, as well as upon writers and their works. A reasonable proficiency in the spoken language will be required. Majors in Romance Languages are strongly advised to study Latin, a knowledge of which is required for graduate work in most institutions. For further details, see the pamphlet on the subject or consult the Executive Officer of the Department or the appropriate adviser.

### FRENCH

#### FIRST GROUP

##### †1-2 *First-Year French* (3-3)

The Staff

For beginners. Grammar, composition, drill in pronunciation, translation of modern French prose. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)

French 1x—same as French 1, but offered winter term. Morning and evening sections.

French 2x—same as French 2, but offered fall term. Morning, afternoon, and evening sections.

1-2x *First-year French* (accelerated) (6) The Staff  
Same as French 1-2, but full year given in fall term on an accelerated basis. Morning.

†3-4 *Second-year French\** (3-3) The Staff  
Advanced grammar and composition, reading in modern French prose, oral practice, introduction to French civilization. Prerequisite: French 1-2 or two years of high school French. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)  
French 3x—same as French 3, but offered winter term. Morning and evening sections.  
French 4x—same as French 4, but offered fall term. Morning and evening sections.

3x-4 *Second-year French\** (accelerated) (6) The Staff  
Same as French 3-4 but full year given in the winter term on an accelerated basis. Morning.

#### SECOND GROUP

French 3-4 or the equivalent is prerequisite to all second-group courses in French.

†109-10 *French Conversation and Composition* (3-3) Grandjean and Staff  
Morning, afternoon, and evening sections. (Also offered 1948 summer term.)

119-20 *French Literature of the Sixteenth Century* (3-3) Keating  
Prose, poetry, drama, and memoirs of the French Renaissance; Rabelais, Montaigne, Marot, La Pléiade, etc. Class analysis of texts, collateral reading. Recommended: History 120. 1949-50 and alternate years, morning.

121-22 *French Literature of the Seventeenth Century* (3-3) Protzman  
History, philosophy, criticism, memoirs, letters, eloquence, drama, fiction, poetry. Class analysis of texts; collateral reading. Morning. (Also offered 1948 summer term.)

123-24 *French Literature of the Eighteenth Century* (3-3) Deibert  
History, philosophy, criticism, letters, drama, fiction, poetry, the "salons", the idea of progress, the idea of science. Class analysis of texts, collateral reading, lectures on literature and history. 1949-50 and alternate years, evening.

125-26 *French Literature of the Nineteenth Century* (3-3) Keating  
Romanticism and realism: fiction, poetry, drama, criticism. Class analysis of texts, collateral reading, lectures on literature and history. 1948-49 and alternate years, morning.

\* Formerly, French 5-6.



- 127-28 *French Literature of the Twentieth Century* Keating  
(3-3)  
Fiction, poetry, drama, criticism. Class analysis of texts, collateral reading, lectures on literature and history. (Offered in 1949-50 and alternate years.)
- 129-30 *French Drama* (3-3) Protzman  
Studies of the principal dramatic movements and theories from the origins to the present, with class analysis of representative plays and individual reports to the class on supplementary plays. (Not offered in 1948-49.)
- 131-32 *History of French Civilization* (3-3) Cornwell  
The social, artistic, and cultural background of French civilization. Lectures, recitations, and informal discussions. Morning.
- 135 *The Modern Novel in France* (3) Keating  
An intensive study of the characteristic novels of the nineteenth and twentieth centuries. Lectures, collateral reading, class discussion. Summer term 1948.
- 136 *The Modern Drama in France* (3) Protzman  
Reading, analysis, and discussion of typical plays and dramatic trends of the nineteenth and twentieth centuries. Lectures, collateral readings, class discussion. Summer term 1948.
- 199-200 *Proseminar: Readings for the Major in French Literature* (3-3) Protzman  
Conferences and group discussions. Afternoon.

## THIRD GROUP

- 227-28 *Seminar in Modern French Literature* (3-3) Keating  
Prerequisite: a second-group course in French literature. 1948-49 and alternate years. The topic for 1948-49 is aspects of the twentieth century novel. Afternoon.
- 229-30 *Seminar in Classical French Literature* (3-3) Protzman  
Prerequisite: a second-group course in French literature. 1949-50 and alternate years. Time to be arranged.
- †249-50 *Old French* (3-3) Doyle  
Phonology and morphology of Old French, with an outline of its development through Vulgar Latin; survey of French literature to the end of the thirteenth century. Prerequisite: a second-group course in French literature; an elementary knowledge of Latin. Time to be arranged. (Not offered in 1948-49.)
- †251-52 *Middle French* (3-3) Doyle  
French literature of the fourteenth and fifteenth centuries. Class analysis of texts; collateral reading. Prerequisite: a second-group course in French literature. Knowledge of Old French desirable. Time to be arranged. (Not offered in 1948-49.)
- 299-300 *Thesis* (3-3) The Staff

## PORTUGUESE

## FIRST GROUP

- †1-2 *First-year Portuguese* (3-3) Bueno  
For beginners. Grammar, composition, drill in pronunciation, translation of modern Portuguese prose. Evening.
- †3-4 *Second-year Portuguese* (3-3) Bueno  
Advanced grammar and composition, reading of modern Portuguese prose, oral practice, introduction to Portuguese and Brazilian civilization. Prerequisite: Portuguese 1-2 or the equivalent. Evening.

## SECOND GROUP

Portuguese 3-4 or the equivalent is prerequisite to all second-group courses in Portuguese.

- 127-28 *Portuguese and Brazilian Literature* (2-2)  
Evolution of the Portuguese language; outline of the literature of Portugal (fall term) and Brazil (winter term). Lectures, readings, written reports. Conducted in Portuguese. (Not offered in 1948-49.)

## SPANISH

## FIRST GROUP

- †1-2 *First-year Spanish* (3-3) The Staff  
For beginners. Grammar, composition, drill in pronunciation, translation of modern Spanish prose. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)  
Spanish 1x—same as Spanish 1, but offered winter term. Morning and evening sections.  
Spanish 2x—same as Spanish 2, but offered fall term. Morning, afternoon, and evening sections.
- 1-2x *First-year Spanish* (accelerated) (6) The Staff  
Same as Spanish 1-2, but full year given in fall term on an accelerated schedule. Morning.
- †3-4 *Second-year Spanish\** (3-3) The Staff  
Advanced grammar and composition, reading of modern Spanish prose, oral practice, introduction to Latin American civilization. Prerequisite: Spanish 1-2 or two years of high school Spanish. Morning and evening sections. (Also offered 1948 summer term.)  
Spanish 3x—same as Spanish 3, but offered winter term. Morning and evening sections.  
Spanish 4x—same as Spanish 4, but offered fall term. Morning and evening sections.
- 3x-4 *Second-year Spanish\** (accelerated) (6) The Staff  
Same as Spanish 3-4, but full year given in winter term on an accelerated schedule. Evening.

\* Formerly, Spanish 5-6.

## SECOND GROUP

Spanish 3-4 or the equivalent is prerequisite for all second-group courses in Spanish.

- †109-10 *Spanish Conversation and Composition* (3-3) Alonso and Staff  
Morning and evening sections. (Also offered 1948 summer term.)
- 111-12 *Commercial Spanish* (3-3) Meléndez  
Evening.
- 121-22 *Spanish Literature of the Golden Age* (3-3) Alonso  
Cervantes, Lope de Vega, Calderón; the classic drama, fiction, the ballad, lyric poetry. Class analysis of texts, collateral reading, lectures on literature and history. Morning. (Also offered 1948 summer term.)
- 123-24 *Cervantes* (3-3) Doyle  
Life and works of Cervantes. The Quixote, the Novelas Ejemplares, and other works. Morning.
- 125-26 *Modern Spanish Literature* (3-3) Alonso  
Prose and poetry of the eighteenth and nineteenth centuries. Class analysis of texts, collateral reading, lectures on literature and history. Evening.
- 127-28 *Contemporary Spanish Literature* (3-3) Supervía  
Prose and poetry of the latter part of the nineteenth and of the twentieth centuries. Class analysis of texts, collateral reading, lectures on literature and history. 1949-50 and alternate years.
- 131-32 *History of Spanish Civilization* (3-3) Supervía  
The social, artistic, and cultural background of Spanish civilization. Lectures, recitations, and informal discussion. Morning.
- 135 *The Modern Novel in Spain* (3) Supervía  
An intensive study of contemporary novels, novelists, and their backgrounds. Lectures, collateral reading, class discussion.  
Summer term 1948.
- 136 *The Modern Drama in Spain* (3) Alonso  
A study of selected plays with an appreciation of their social and literary significance. Lectures, collateral reading, class discussion.  
Summer term 1948.
- 151-52 *The Spanish American Novel* (3-3) Vázquez  
Formerly, Spanish 129-30. Development of the novel in Spanish America. Lectures, collateral reading, and class analysis of texts.  
Summer term 1948.
- 153-54 *The Modernista Movement in Spanish America* (3-3) Vázquez  
A study of the background, trends, and personalities of this movement. (Not offered in 1948-49.)



- 155-56 *Spanish American Literature* (3-3) Vázquez  
The literature of Spanish America from the colonial period to the latter part of the nineteenth century. Lectures, collateral reading, reports, and class analysis of important works. 1948-49 and alternate years. Evening.
- 157-58 *Spanish American Literature* (3-3) Vázquez  
The literature of Spanish America from 1880 to the contemporary period. Lectures, collateral reading, reports, and class analysis of important works. 1949-50 and alternate years.
- 197-98 *Proseminar: Readings for the Major in Spanish American Literature* (3-3) Vázquez  
Conferences and group discussions. Time to be arranged.
- 199-200 *Proseminar: Readings for the Major in Spanish Literature* (3-3) Alonso  
Conferences and group discussions. Time to be arranged.

## THIRD GROUP

- 225-26 *Seminar in Spanish Literature* (3-3) Alonso  
Prerequisite: a second-group course in Spanish literature. 1949-50 and alternate years.
- 227-28 *Seminar in Spanish American Literature* (3-3) Vázquez  
Prerequisite: a second-group course in Spanish American literature. (Not offered in 1948-49.)
- †249-50 *Old Spanish* (3-3) Doyle  
Literature and philology: *Poema del Cid*, *Libro de Buen Amor*, *Conde Lucanor*, etc.; Menéndez Pidal's *Manual elemental de gramática histórica española* and Ford's *Old Spanish Readings*. Prerequisite: a second-group course in Spanish literature; an elementary knowledge of Latin. Saturday morning.
- 299-300 *Thesis* (3-3) The Staff



## SECRETARIAL STUDIES

Dorothy Helene Veon, A.M., Ed.D., *Assistant Professor of Secretarial Studies, Executive Officer*

Mary Winifred Cox, A.M., *Associate in Secretarial Studies*

June Elizabeth Ayers, A.B., *Associate in Secretarial Studies*

*Requirements for the degree of Associate in Arts in Secretarial Studies.*—See pages 53-55, 61.

### FIRST GROUP

1 *Elementary Typewriting* (2) Veon, Ayers  
Fundamentals of typewriting, styles of business letters and forms, principles of tabulation, and machine composition. Laboratory fee, \$4.50. Morning and evening sections.

Secretarial Studies 1x—same as Secretarial Studies 1, but offered winter term. Evening.

2 *Intermediate Typewriting* (2) Veon, Ayers  
The business letter and its arrangement, advanced tabulation, manuscript typing, office forms, stencil cutting, and legal documents. Prerequisite: Secretarial Studies 1 or the equivalent; ability to type accurately at 30 words a minute. Laboratory fee, \$4.50. Morning and evening sections.

Secretarial Studies 2x—same as Secretarial Studies 2, but offered fall term. Evening.

11 *Elementary Shorthand and Transcription* (4) Veon  
A functional study of the principles of Gregg shorthand correlating dictation and transcription. Minimum dictation speed of 60 words a minute attained. Laboratory fee, \$1.50. Morning and late afternoon sections.

12 *Intermediate Shorthand and Transcription* (4) Veon  
Review of the principles of Gregg shorthand; dictation and transcription on general and specialized business subjects. Minimum dictation speed of 80 words a minute attained. Prerequisite: Secretarial Studies 11 or the equivalent; ability to take dictation at 60 words a minute. Laboratory fee, \$1.50. Morning and late afternoon sections.

15 *Advanced Shorthand, Typewriting, and Transcription* (3) Cox

Emphasis on speed and accuracy. Minimum speed of 100 words a minute attained in dictation. Prerequisite: Secretarial Studies 12 or the equivalent; ability to take dictation at 80 words a minute and to transcribe accurately; ability to type 50 words a minute. Laboratory fee, \$1.50. Evening.

**16 Secretarial Shorthand, Typewriting and Transcription (3)**

Cox

Dictation and transcription involving vocabularies used in specific businesses and professions, with special reference to Medicine and Law. Minimum dictation speed of 120 words a minute attained. Prerequisite: Secretarial Studies 15 or the equivalent; ability to take dictation at 100 words a minute and to transcribe accurately; ability to type 55 words a minute. Laboratory fee, \$1.50. Evening.

**51 Business Correspondence and Reports (3)**

Veon

The technique of communication forms with reference to business letters and reports. Survey of current business literature. Prerequisite: English 1 and 2. Afternoon.

**54 Secretarial Practice (3)**

Veon

Training in secretarial duties and in the use of secretarial equipment and supplies. Actual office experience involving the taking of dictation and the transcribing of various materials; composing business letters, reports, and other forms; preparing bills, statements, financial forms, and statistical records; modern filing systems. Special adaptation made for medical and legal secretaries. Prerequisite: Secretarial Studies 15 and 51; Business Administration 51; or the equivalent. Afternoon.

## SOCIOLOGY

Harold Loran Geisert, Ph.D., *Professor of Sociology, Executive Officer*

Carr Bartleson Lavell, A.M., *Assistant Professor of Sociology*

Henry Davidson Sheldon, Ph.D., *Lecturer in Sociology*

Fenita English, A.M., *Lecturer in Sociology*

*The major in Sociology (Departmental).*—Prerequisite: Sociology 1 and 2. Required: Sociology 172 and 181 and 18 hours elective in sociology or closely related fields or departments, if specifically approved in advance by the Department of Sociology.

### FIRST GROUP

- 1 *Organization of Society*\* (3) Lavell, English  
Formerly, Sociology 27. The origin and development of culture, man's social nature, types of groups and social institutions, social processes, social change, and social control. Morning and evening sections. (Also offered 1948 summer term.)
- 2 *Problems of Society* (3) Lavell, English  
Formerly, Sociology 28. The factors producing personal and social disorganization; an analysis of the problems arising from the disorganization of the individual and the family. Morning and evening sections. (Also offered summer term 1948.)

### SECOND GROUP

- 121 *Educational Sociology* (3)  
The relation of the school to the community, the sociology of the school child, school culture, social control in the school, sociological principles in the construction of the curriculum. (Not offered in 1948-49.)
- 125 *Rural Sociology* (3)  
The origin and development of rural culture, types of rural communities, changing rural social institutions, social processes in rural life, rural planning.  
Summer term 1948.
- 126 *Urban Sociology* (3) Geisert  
Types of cities; their origin, growth, location, composition, functions, and problems; urban personalities and institutions; housing; city planning. Morning.
- 131 *Social Institutions* (3)  
The origin and development of social institutions, basic needs producing institutional forms, structure and functions of principal institutions and their interrelationship. Morning.

\* Sociology 1 is prerequisite to all other courses in sociology.

- 132 *Marriage* (3) Geisert  
The social structure and control of marriage, marriage laws, mate selection, husband-wife relationships, factors in marital adjustment, marriage prediction and counseling. Morning.
- 133 *The Family* (3) Geisert  
A study of the modern family, changing functions and roles of the family and its members, factors promoting disorganization, measures seeking to preserve family life. Afternoon. (Also offered 1948 summer term.)
- 134 *Child Welfare* (3)  
The socialization of the child through the home and other social institutions, the physically handicapped child, dependent children; child labor. Morning.
- 135 *Criminology* (3) Sheldon  
The nature and distribution of crime, theories of criminality, factors producing criminal behavior, behavior systems in crime, police systems, detention before trial. Evening.
- 136 *Penology* (3) Sheldon  
Origin and development of punishment, the criminal and juvenile court systems, the prison system in the United States, prison labor and education, probation and parole. Evening.
- 141 *Population* (3) Geisert  
The nature and composition of population; theories of population growth, qualitative and quantitative differences in population groups; population programs. Morning.
- 151 *Industrial Sociology* (3)  
The impact of industrialism on society; sociological analysis of the labor movement, sources of friction and problems of maintaining morale and cooperation in industry. Morning.
- 162 *Social Change* (3)  
The effects of technological change on society; nature and theories of social change, factors promoting change; methods of analyzing the social effect of inventions. Evening.
- 164 *Social Control* (3)  
Informal and formal phases of human control; analysis of methods of control used in modern society and the situations in which they occur, policies and techniques of control.  
Summer term 1948.
- 172 *Contemporary Social Theory* (3) Geisert  
A systematic study of the important schools of contemporary sociology, including recent European as well as American developments, and an evaluation of the scientific contribution of each school. Evening.



- 181 *Methods of Social Research* (3) Geisert  
An analysis of social research techniques and the scientific method: the application of the case study, social survey, statistical, sociometric and experimental methods to social data. Evening.

## THIRD GROUP

- 225 *Seminar: Social Relations* (3) Geisert  
The elements of social relations, types of social identification, utility, commodity, mediated and dissociative relations, valuation of the person, organization of social relations; institutions, groups, societies. Evening.
- 226 *Seminar: Social Structure* (3) Geisert  
General characteristics of social structures, analysis of status by types: age, sex, vocational, social classes and castes, personal and categorical relations, unity and continuity of society. Time to be arranged.
- 295-96 *Research* The Staff  
Time and credits to be arranged.
- 299-300 *Thesis* (3-3) The Staff

## SPEECH

Henry Goddard Roberts, A.M., *Associate Professor of Speech*  
 Lubin Poe Leggette, A.M., *Associate Professor of Speech, Executive Officer*  
 Calvin Weir Pettit, Ph.M., *Assistant Professor of Speech, Director of Speech Clinic* \*  
 Edwin Lockwood Stevens, A.M., *Assistant Professor of Speech*  
 George Francis Henigan, Jr., Ph.M., *Assistant Professor of Speech*  
 Edward Perkins Mangum, A.M., *Assistant Professor of Speech*  
 Walter Byron Emery, LL.B., Ph.D., *Lecturer in Speech*  
 Natalie Evelyn White, Ph.D., *Instructor in Speech*

*The major in Public Speaking (Departmental).*—Prerequisite: Speech 11, 21-22. Required: Twenty-four credit hours including Speech 1-1, 1-8, 135, 145-49, 191-92. Recommended in addition: English 125; Journalism 111-12; Philosophy 111-12, 121, 162; Psychology 151.

*The major in Theatre (Departmental).*—Prerequisite: Speech 11, 12, 21. Required: twenty-four credit hours including Speech 151-52 or 155-56, 163-64, 165-66. Recommended in addition: English 133-35, 175, 183-84.

*The major in Speech Rehabilitation (Departmental).*—Prerequisite: Speech 11, 12, 21. Required: twenty-four credit hours including Speech 101, 175-76, 178, 180. Recommended in addition: Psychology 29, 131, 171, 191, Physiology 115, English 125.

### FIRST GROUP

**11 *Training the Speaking Voice* (3)** The Staff  
 Developing ease, naturalness, and clarity in the speaking voice. Analysis of individual voices through recordings. Phonetic approach to the study of the sounds of English, and the standards of speech. Class instruction in the problems of rate, volume, pitch and quality. Recording fee, \$1.50. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)  
 Speech 11x—same as Speech 11, but offered winter term. Morning and evening sections.

**12 *Oral Reading* (3)** White and Staff  
 Reading to others; theory and practice in the problems of interpreting the printed page. Prerequisite: Speech 11 or the permission of the instructor. Recording fee, \$1.50. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)  
 Speech 12x—same as Speech 12, but offered fall term. Morning, afternoon, and evening sections.

\* The Speech Clinic offers individual or group lessons, without academic credit, for such speech difficulties as lisping, cleft palate, articulatory problems, stuttering and foreign accents. Fee: for individual lesson, \$5; for group lesson, \$3.

- 21-22 *Public Speaking* (3-3) Leggette and Staff  
Preparation and delivery of extempore speeches; developing confidence and poise, body and voice control; emphasis on organization of material and elementary principles of persuasion. Prerequisite to Speech 22: Speech 21. Recording fee, \$1.50 a term. Morning, afternoon, and evening sections. (Also offered 1948 summer term.)  
Speech 21x—same as Speech 21, but offered winter term. Morning, afternoon, and evening sections.  
Speech 22x—same as Speech 22, but offered fall term. Morning and evening sections.

- 41 *Parliamentary Law* (3) Emery  
The correct procedure in forming an organization and in conducting its meetings in an orderly and businesslike manner. Saturday morning.

- 69 *Introductory Theatre Practice* (3)  
General course in the practical arts of the theatre. Lectures and practical work in the workshop and in public performances. Laboratory fee, \$2. Evening.  
Speech 69x—same as Speech 69, but offered winter term. Evening.

## SECOND GROUP

- 101 *Introduction to Phonetics* (3) Pettit and Staff  
The fundamental and critical analysis of the sound system of the English language. Attention to comparative phonetics and standards of pronunciation. Recording fee, \$1.50. Evening.  
Speech 101x—same as Speech 101, but offered winter term. Afternoon.

- 102 *Oral Interpretation of Literature* (3) White  
Theory and practice in the problems of communicating meaning and emotion. Selections for study include poetry and prose. Prerequisite: Speech 12 or permission of the instructor. Recording fee, \$1.50. Morning and evening sections.

- 108 *Speeches for Special Occasions* (3) Emery  
The preparation and presentation of speeches of introduction, presentation, acceptance, welcome, nomination, and eulogy. Prerequisite: Speech 21-22. Evening. (Also offered 1948 summer term.)

- 109-110 *Radio Speaking and Production* (3-3) Stevens  
Radio speeches, interviews, and discussions; news reporting and interpreting; techniques of direction and production; plays; audience measurement. Prerequisite: Speech 12 or permission of the instructor. Prerequisite to Speech 110: Speech 109. Recording fee, \$3 a term. Afternoon.  
Speech 109x—same as Speech 109, but offered winter term. Evening.  
Speech 110x—same as Speech 110, but offered fall term. Evening.



131 *Group Discussion and Conference Leadership* (3)

Henigan

The process of thinking and problem solving in committees and small groups, and the methods of leading discussions and conferences. Prerequisite: six credit hours of speech or the permission of the instructor. Evening. (Also offered 1948 summer term.)

135 *Argumentation and Debate* (3)

Henigan

Study of evidence and inference in reasoned discourse; techniques and methods of debating; argumentative speeches and practice debates on questions of current interest. Prerequisite: Speech 21-22. Afternoon.

Speech 135x—same as Speech 135, but offered winter term. Evening.

138 *Persuasion* (3)

Henigan

An advanced course in public speaking with emphasis on audience analysis and audience psychology; preparation and delivery of persuasive speeches; study of current public speeches. Prerequisite: Speech 21-22. Morning.

145-46 *English and American Orators and Oratory* (3-3)

Emery

Fall term: a survey of English orators and oratory; winter term: a survey of American orators and oratory from colonial days to recent times. Prerequisite: six credit hours of speech. Evening.

151-52 *Acting* (3-3)

White

Study and practice in the fundamentals of acting technique: body movement, basic expression, and character analysis; interpretation; make-up. Prerequisite: Speech 11, 12. Prerequisite to Speech 152: Speech 151. Laboratory fee, \$2 a term. Late afternoon.

155-56 *Stage Scenery and Lighting* (3-3)

Fall term: construction and painting of scenery for the stage. Winter term: fundamental principles of stage light and its uses in the theatre; basic principles of electricity. Application of principles through assignments in the workshop and backstage during performances. Laboratory fee, \$2 a term. Afternoon.

Speech 155x—same as Speech 155, but offered winter term. Evening.

Speech 156x—same as Speech 156, but offered fall term. Evening.

159 *Stage Management* (3)

The stage manager and backstage organization. Duties of stage manager: organizing the production crews; maintaining a schedule; coordinating the production; preparation of master plots; dealing with properties, costumes, music, and sound effects; running the show. Special assignments in the workshop and backstage during productions. Laboratory fee, \$2. Late afternoon.

Speech 159x—same as Speech 159, but offered winter term. Evening.



- 163-64 *Play Direction* (3-3) Mangum  
 Fundamentals of play production. Fall term: composition, movement, rhythm, and pantomime; elementary stage technique for the actor; problems of play selection; procedure for tryouts and casting, rehearsals, and the directing process. Students will prepare one-act plays for production. Winter term: preparing the public performance. Under the supervision of the instructor, each student will produce a one-act play and will prepare a detailed director's script of a full length play. Lectures and round table discussions of the director's problems at each stage of the process. Admission by permission of the instructor. Laboratory fee, \$2 a term. Evening.
- 165-66 *History of the Theatre* (3-3) Leggett  
 A general survey of the rise of the theatre, the Classical, Medieval, Renaissance, later English and Continental, and Modern theatre. Admission by permission of the instructor. Afternoon.
- 167-68 *Playwriting* (3-3) Mangum  
 The theory and technique of playwriting. Fall term: the theory of drama as an art form, finding a theme, building the story; creating characters, writing the dialogue. Students will study the construction of plays of the past and present. Winter term: writing the one-act play. Under the supervision of the instructor, each student will complete a one-act play. Round table discussions at each stage of the process. Admission by permission of the instructor. Evening.
- 169 *Theatre Management* (3)  
 The psychology of press agency, building the subscription audience, box office and the buying public, the theatre manager in his own domain, treatment of public by personal contact between and during shows, back stage and the unions, looking in the road shows, "selling theatre". Lectures and practical work on the public performances. Evening.  
 Speech 169x—same as Speech 169, but offered winter term. Evening.
- 175-76 *Speech Correction* (3-3) Pettit  
 A study of the causes of the disorders of speech with emphasis on methods in diagnosis and treatment of defective speech. Prerequisite: Speech 11 and 141 or permission of the instructor. Recording fee, \$3 a term. Afternoon. (Also offered 1948 summer term—Speech 175 (A).)  
 Speech 176x—same as Speech 176, but offered fall term. Afternoon.
- 178 *Clinical Practice* (1) Pettit  
 Case work in remedial speech. This course may be repeated for a total of three credit hours. Prerequisite: Speech 175. Time to be arranged. (Also offered 1948 summer term.)  
 Speech 178x—same as Speech 178, but offered fall term. Time to be arranged.
- 180 *Speech Pathology* (3) Pettit  
 An advanced study of the causes and symptoms of the major organic and psychogenic speech disorders. Prerequisite: permission of the instructor. Afternoon.
- 191-92 *Classical and English Rhetorical Theory* (3-3) Roberts  
 Prerequisite: nine credit hours of speech. Time to be arranged.

## STATISTICS

Frank Mark Weida, Ph.D., *Professor of Statistics, Executive Officer*

Everett Herschel Johnson, Ph.D., *Associate Professor of Statistics*

Solomon Kullback, Ph.D., *Lecturer in Statistics*

Dorothy Jeanne Morrow, M.S., *Lecturer in Statistics*

Charles Lawrence Marks, A.M., *Instructor in Statistics*

*Minimum requirements for the major (Field-of-Study).—Prerequisite:* Mathematics 12, 19, and 20; Philosophy 121, 122; an introductory course in one of the social sciences, one of the biological sciences, or one of the physical sciences. Required: an understanding of the underlying mathematical theory employed to characterize, compare, and elucidate quantitative or qualitative measurements which are found in Statistics 115-16, 117, 118, 155-56, 157-58; a minimum of twenty-four credit hours of second-group courses in departments unrelated to statistics. For further details, consult the catalog.

### FIRST GROUP

- 51 *Elementary Statistics* (3) The Staff  
Collection of data, classification, and tabulation, averages, construction and use of index numbers and quotients, dispersion, analysis of frequency distribution, time series, correlation, and graphic presentation. Prerequisite: one entrance unit in algebra. Laboratory fee, \$5. Lecture (2 hours)—morning and evening sections; Laboratory (1½ hours)—morning, afternoon, and evening sections. (Also offered 1948 summer term.)  
Statistics 51x—same as Statistics 51, but offered winter term. Morning and evening sections.
- 52 *Mathematics of Finance* (3) The Staff  
Interest and discount, annuities, valuation of stocks and bonds, sinking funds, amortization, valuation of depletable assets, depreciation, building and loan associations. Prerequisite: one entrance unit in algebra. Morning and evening sections. (Also offered 1948 summer term.)  
Statistics 52x—same as Statistics 52, but offered fall term. Morning and evening sections.
- 53 *Introduction to Statistics in Psychology and Education* (3) Weida and Staff  
Sources of data, tabulation, charts and graphs, averages, dispersion, quartiles and percentiles, raw scores and derived scores, profiles, norms and their use, frequency distributions, intelligence and other quotients, reliability and validity of tests, normal curve, correlation, elementary sampling, statistical error, limitations of statistics. Prerequisite: one entrance unit in algebra. Laboratory fee, \$5. Lecture (2 hours)—morning and evening sections; Laboratory (1½ hours)—afternoon and evening sections.  
Statistics 53x—same as Statistics 53, but offered winter term. Morning and evening sections.

- 54 *Introduction to Actuarial Science* (3) Weida  
Gompertz and Makeham laws of mortality, life contingencies, life annuity premiums, life insurance premiums, reserves, risk, cost, social and other types of insurance. Prerequisite: Statistics 52. Evening.

## SECOND GROUP

- 104 *Statistics in Psychology and Education* (3) Weida  
Advanced study of correlation and frequency analysis, sampling theory, factor analysis, and applications to specific problems utilizing case method of study insofar as possible. Original work is required of each student. Prerequisite: Statistics 53. Laboratory fee, \$5. Lecture (2 hours), laboratory (1 $\frac{3}{4}$  hours)—evening.
- †107-8 *Biostatistics* (3-3) Marks  
Probability and significance, designing experiments, reliability of data, distributions, curve fitting, tests of significance, analysis of variance, correlation. Applications to genetics, anthropology, bacteriology, physiology, pharmacology, life tables, mortality rates and dose-mortality curves; as well as general biology. Prerequisite: one entrance unit in algebra. Evening.
- 111 *Business and Economic Statistics I* (3) Johnson  
Applications of statistical methods to specific problems of business administration and economics. Scope of course includes averages, dispersion, frequency distributions, sampling, and simple correlation. Admission by permission of instructor. Morning and evening sections.
- 112 *Business and Economic Statistics II* (3) Johnson  
Applications of statistical methods to specific problems of business administration and economics. Scope of course includes multiple and partial correlation, time series analysis, index numbers, business cycles, elasticity of demand and mortality schedules for depreciable property. Prerequisite: Statistics 111 or the equivalent. Morning and evening sections.
- †115-16 *Principles of Statistical Methods\** (3-3) Weida and Staff  
This course emphasizes the meaning, uses, and applications of: variates and attributes, measurement and enumeration, averages and dispersion, frequency distributions and their characteristics, errors of measurement and their control, index numbers, trends, cyclical relatives, purposive and random sampling in theory and practice and their errors and estimates, correlation in theory, practice, and applications. Prerequisite: one entrance unit in algebra. Laboratory fee, \$5 a term. Lecture (2 hours)—morning and evening sections; laboratory (1 $\frac{3}{4}$  hours)—afternoon and evening sections. (Also offered 1948 summer term.)

\* Statistics 115-16 is for statistics majors, for students desiring to become statisticians, and for students in engineering and the biological and physical sciences.



- 117 *Analysis of Variance* (3) Marks  
The analysis of variance and covariance to segregate factors producing significant variation, a method to estimate experimental error, multiple classification with unequal class frequencies. Prerequisite: Statistics 115-16. Evening. (Also offered 1948 summer term.)
- 118 *Correlation and the Chi-Square Test* (3) Kullback  
Advanced study of simple, partial, and multiple correlation. Rank correlation, the method of contingency, and the problem of normal and non-normal populations. Tests of independence, likeness, and goodness of fit. Prerequisite: Statistics 115-16. Evening. (Also offered 1948 summer term.)
- †155-56 *Mathematical Probability* (3-3) Marks  
Definitions, enumeration of cases, total and compound probability, repeated trials, Bayes' theorem and postulate, Bernoulli's theorem and its experimental verification, mathematical expectation, law of large numbers and its applications. Prerequisite: Mathematics 20 and Statistics 115-16. Evening.
- †157-58 *Mathematical Statistics* (3-3) Kullback  
Statistics as a science, types of problems, relative frequency and probability, binomial and multinomial distributions, Pearson system of curves, Gram-Charlier series, Cauchy distribution, correlation by regression method, Lexis theory of dispersion, generating functions, simple sampling theory, moments and semi-invariants. Prerequisite or concurrent registration: Statistics 155-56. Evening.
- 159 *Calculus of Observations* (3) Marks  
Interpolation; finite differences; least squares and theories of error; method of iteration; numerical differentiation and integration; numerical solution of algebraic, transcendental, differential, and integral equations; errors of observation; practical Fourier analysis; empirical formulas; and curve fitting. Prerequisite or concurrent registration: Statistics 155-56. Evening.
- 160 *Quality Control Techniques* (3) Marks  
Characteristics; scientific basis; reduction in cost of inspection, rejections, and tolerance limits; quality as an attribute; distribution of quality characteristics; laws basic to control; statistical and maximum control; detection of lack of control. Prerequisite: Statistics 157-58. Evening.
- 161-62 *Techniques of Statistical Analysis* (3-3) Weida  
Industrial and other statistics, planning experiments, selection of techniques, sampling theory and practice. Prerequisite: Statistics 158 or the equivalent. 1949-50 and alternate years.
- †197-98 *Statistical Mathematics\** (3-3) Kullback  
Matrix algebra, quadratic forms, contour integration, measure theory, Stieltjes integration, Cauchy theory of residues, n-dimensional geometry in flat spaces. Prerequisite: Mathematics 139 or the equivalent. Evening.

\* Statistics 197-98 is prerequisite to all third-group courses except Statistics 205-6.



†199-200 *Proseminar: Theoretical and Applied Statistics (3-3)*

Weida

In addition to the study of recent advances in statistical methods, this course is designed to coordinate the content of the baccalaureate major. Admission by permission of the instructor. Time to be arranged.

THIRD GROUP \*

201 *Design of Experiments (3)*

Morrow

Relative merits of random, repeated, stratified, and double sampling; Fisher-Pitman method of randomization; randomized blocks; Latin squares; factorial design; confounding, partial confounding. Evening.

202 *Theory of Estimation and Testing Hypotheses (3)*

Morrow

Statistical hypotheses; maximum likelihood estimate; Markoff's best estimate; Neyman-Pearson theory of testing hypotheses; Bayes' theory; consistent, efficient, and sufficient statistics; theory of confidence intervals. Evening.

†203-4 *The Theory of Econometrics (3-3)*

Johnson

Statistical methods applied to the analysis of production, supply, and demand; utility and disutility; interest and taxation; exchange. Stress is placed on the interpretation of results in terms of probability. Correlation and regression of time series. Admission by permission of the instructor. Evening.

205-6 *Advanced Business and Economic Statistics (3-3)*

Johnson

Application of statistical methods to specific problems utilizing case method insofar as possible. Emphasis is placed on source materials, role of statistical methods, techniques of analysis, interpretation and presentation of results. Original work is required of each student. Prerequisite: Statistics 112 or the equivalent. 1949-50 and alternate years.

†257-58 *Advanced Mathematical Statistics (3-3)*

Weida

Mathematical basis of distribution functions, moments and cumulants, probability and likelihood, sampling distributions exact and approximate. Chi square distribution, association and contingency, various conceptions of correlation, individual difference problem, time series, regression analysis, analysis of variance, theories of inference. Evening.

†259-60 *Advanced Mathematical Probability (2-2)*

Kullback

Modern theories and asymptotic laws; elementary theory of definite integration; limit theorems in probability; the contributions of Cramer, Frechet, Kolmogoroff, Khintchine. Prerequisite: Statistics 257-58 or the equivalent. (Offered in 1949-50.)

\* Statistics 197-98 is prerequisite to all third group courses except Statistics 205-6.

- †263-64 *Statistical Inference (2-2)* Weida  
Sample space; methods for estimating population parameters; fiducial inference and its application to testing hypotheses; valid, efficient, and exact estimation; Student distribution; variance distribution; sampling statistics, i.e., moments and cumulants used as estimates of population parameters and used to test hypotheses. Prerequisite or concurrent registration: Statistics 259-60 or the equivalent. (Offered in 1949-50.)
- †265-66 *Multivariate Analysis (2-2)* Kullback  
Tests of significance, generalized variance and covariance, tests of independence, canonical and vector correlations, multivariate normal distribution, generalized Student's ratio, problems of estimation, applications to factor analysis. (Not offered in 1948-49.)
- †267-68 *Characteristic Functions (2-2)* Kullback  
Fourier integrals, set functions, inversion formulas, limit theorems, applications to the distribution problem in statistics. Evening.
- †269-70 *Sequential Testing (2-2)*  
Efficiency of sequential tests, sequential probability ratio test, expected number of observations necessary for a decision, truncated sequential analysis, sequential tests of single and composite hypotheses. (Offered in 1949-50.)
- 295-96 *Reading and Research (3-3)* Weida  
Admission by permission of the instructor. Time to be arranged.
- 299-300 *Thesis (3-3)* The Staff  
Time to be arranged.

## SURGERY

- Brian Blades, A.B., M.D., *Professor of Surgery, Executive Officer*  
 Daniel LeRay Borden, A.M., M.D., *Clinical Professor of Surgery*  
 Paul Stirling Putzki, M.D., *Clinical Professor of Surgery*  
 Arch Lockhart Riddick, B.S., M.D., *Clinical Professor of Surgery*  
 William Berry Marbury, M.D., *Clinical Professor of Surgery*  
 Custis Lee Hall, M.D., *Clinical Professor of Surgery*  
 John Hugh Lyons, M.S., M.D., *Clinical Professor of Surgery*  
 Frank Errett Hamilton, A.B., M.D., M.S., *Adjunct Clinical Professor of Surgery*  
 Paul Budd Magnuson, M.D., *Adjunct Clinical Professor of Surgery*  
 Wallace Harry Graham, B.S., M.D., *Professorial Lecturer in Surgery*  
 Herbert Hermann Schoenfeld, M.D., *Associate Clinical Professor of Surgery*  
 William Warren Sager, M.S., M.D., *Associate Clinical Professor of Surgery*  
 Benjamin Franklin Dean, Jr., M.S., M.D., *Assistant Clinical Professor of Surgery*  
 Alec Horwitz, M.S., M.D., *Assistant Clinical Professor of Surgery*  
 William Stanley McCune, A.B., M.D., *Assistant Clinical Professor of Surgery*  
 Vincent Michael Iovine, B.S., M.D., *Assistant Clinical Professor of Surgery*  
 Carl Berg, M.D., *Assistant Clinical Professor of Orthopedic Surgery*  
 Calvin Trexler Klopp, A.B., M.D., *Assistant Clinical Professor of Surgery*  
 Julius Salem Neviaser, A.B., M.D., *Assistant Clinical Professor of Orthopedic Surgery*  
 Jerome Blaine Harrell, M.D., *Assistant Clinical Professor of Surgery*  
 Leonard Theodore Peterson, A.B., B.S., M.D., *Assistant Clinical Professor of Orthopedic Surgery*  
 Richard Knight Thompson, D.D.S., *Associate in Dental Surgery*  
 William Ross Morris, M.D., *Associate in Surgery*  
 Philip Pelland, M.D., *Associate in Surgery*  
 Harold Walter Krogh, D.D.S., *Associate in Dental Surgery*  
 Jacob Joseph Weinstein, B.S., Phar.G., M.D., *Associate in Surgery*  
 William Carey Meloy, M.D., M.S. in Med., *Associate in Surgery*  
 Edward Alexander Cafritz, M.D., *Associate in Surgery*  
 Edward James Beattie, M.D., *Associate in Surgery*  
 Hazen Eugene Cole, B.S., M.D., *Clinical Instructor in Surgery*  
 Crenshaw Douglas Briggs, B.S., M.D., *Clinical Instructor in Surgery*



William Wiley Chase, A.B., M.D., *Clinical Instructor in Surgery*  
 Arthur James Mourot, B.S., M.D., *Clinical Instructor in Surgery*  
 Joseph Francis Conlon, D.D.S., *Clinical Instructor in Dental Surgery*  
 Otto Anderson Engh, A.B., M.D., *Clinical Instructor in Surgery*  
 Duane Case Richtmeyer, A.B., M.D., *Clinical Instructor in Surgery*  
 Richard Lee Jackson, M.D., *Clinical Instructor in Surgery*  
 Leon Gerber, M.D., *Clinical Instructor in Surgery*  
 Walter Henry Gerwig, Jr., A.B., M.D., *Clinical Instructor in Surgery*  
 Thomas Bradley, A.B., M.D., *Clinical Instructor in Surgery*  
 Lloyd Burk, Jr., M.D., *Clinical Instructor in Surgery*  
 Joe Milton Van Hoy, A.B., M.D., *Clinical Instructor in Surgery*  
 Austin Bertram Rohrbaugh, Jr., M.D., *Clinical Instructor in Orthopedic Surgery*

279-80 *General Surgery* Dean, Harrell

Course of lectures and recitations covering surgical diseases of the neck and chest, herniae, amputations, and pre- and post-operative treatment. One hour a week for twenty-eight weeks.

283 *Principles of Surgery* The Staff

A clinical and laboratory course covering the fundamentals of surgery, including studies in inflammation, wound healing, etc. One hour laboratory and one hour in the clinics.

371-72 *General Surgery* Richtmeyer, Riddick

Course of lectures and recitations covering surgery as applied to the neck, thorax, gastro-intestinal tract, and the bones and skeletal muscles. One hour a week.

373-74 *Ward Walks* The Staff

Well-organized group ward-rounds are made with the visiting physicians and their respective staffs in the course of their usual rounds. Gallinger Hospital.

375-76 *Surgical Clinic* Blades

Clinical teaching and demonstrations on the care of the various surgical diseases, with special emphasis on the pre- and post-operative management. Gallinger Hospital.

379-80 *Surgical Staff Conference* The Staff

Gallinger Hospital. Weekly.

381-82 *Clinical Clerkship* The Staff

The student is assigned and required to work up thoroughly the cases for diagnosis and treatment. Gallinger Hospital.

473-74 *Clinical Clerkships* The Staff

Available at the University Hospital, Walter Reed General Hospital, and Mt. Alto Hospital.



478 *Orthopedics*

Hall

Etiology, pathology, symptomatology, and treatment of congenital and acquired diseases of the bones and joints, and the clinical instruction in treatment and in the use of appliances for the correction of deformities. One hour a week.

481 *General Surgery*

Blades

One hour a week.

483-84 *Dispensary Clinic*

The Staff

Dispensary instruction in the principles and practice of surgery. Instruction of small groups is given in general surgery and the specialties, including anesthesia, neurosurgery, orthopedics, proctology, and oral surgery. University and Emergency hospitals.

485-86 *Special Problems in Surgery*

Riddick, Dean

General surgical diagnosis, with special emphasis on the diagnosis and differential diagnosis of surgical diseases and post-operative complications. One hour a week.

488 *Surgical Clinic*

The Staff

Demonstration to the entire class of the various surgical diseases. One hour a week.

489 *Surgical Anatomy*

Horwitz

One hour a week.

491-92 *Surgical Pathology*

Blades, Klopp

The senior class in groups of ten may attend the meeting of the Tumor Board of the Staff of Walter Reed Hospital and the Warwick Clinic. Patients with all types of neoplasms are demonstrated and gross and microscopic studies of various neoplasms are shown. Three hours a week.

493-94 *Surgical Diseases of the Chest*  
(elective)

Blades and Staff

Patients with various diseases of the chest, including diseases of the lung, mediastinal, and esophagus are presented. The cases are followed from week to week and operative specimens and microscopic sections are demonstrated. Walter Reed Hospital. Three hours a week.

## UROLOGY

Frederick A. Reuter, M.D., *Professor of Urology, Executive Officer*  
Thomas Carlton Thompson, B.S., M.D., *Clinical Professor of Urology*  
Gilbert Ottenberg, A.M., M.D., *Associate in Urology*  
William Dabney Jarman, B.S., M.D., *Clinical Instructor in Urology*  
Edward Egner Ferguson, M.D., *Clinical Instructor in Urology*  
Leon Richard Culbertson, B.S., M.D., *Clinical Instructor in Urology*

395-96 *Clinics*

The Staff

Clinical teaching and demonstrations on the care of urological cases with special emphasis on the pre- and post-operative management. Operative clinics and clinical teaching. Gallinger Hospital.

491-92 *Urology*

Reuter and Staff

Lectures covering the entire field of urology, including diagnosis, treatment, and morbid pathology. One hour a week.

495-96 *Clinics*

Reuter and Staff

Clinical demonstrations and teaching in the dispensary, with special attention given to diagnostic procedures. Emergency and University hospitals. One part of each section daily.

## ZOOLOGY \*

Donnell Brooks Young, Ph.D., *Professor of Zoology*  
 Ira Bowers Hansen, Ph.D., *Professor of Zoology, Executive Officer*  
 Edith Elizabeth Mortensen, Ph.D., *Assistant Professor of Zoology*  
 Kenneth Caspar Kates, Ph.D., *Lecturer in Zoology*  
 John Lamar Grace, M.S., *Instructor in Zoology*

*The major in Zoology (Field-of-Study).*—Prerequisite: Zoology 1-2. The student must, at the end of his senior year, exhibit a correlated knowledge of the following fields: (1) classification, structure, and ecological relations of animals, both invertebrate and vertebrate; (2) embryological development and life histories of important animal types; (3) general principles of physiology, heredity, and evolution; (4) the development of biological principles, hypotheses, and theories as revealed in the study of the history of zoology.

The student will obtain this knowledge in part by taking courses offered in these fields and in part by individual study under the direction of his adviser. For further details, see the pamphlet on this subject or consult the adviser.

Premedical students are required to take Zoology 1-2.

### FIRST GROUP

1-2 *Introduction to Zoology* Young, Mortensen, Grace  
 (4 4)

An introduction to the study of the structure, functions, and relation of animals, and of the fundamental biological principles involved. Material fee, \$4.50 a term. Lecture (2 hours)—morning and evening sections; laboratory (4 hours)—morning, afternoon, and evening sections. (Also offered 1948 summer term.)

Zoology 2x—same as Zoology 2, but offered fall term. Morning.

†5-6 *Field Zoology* (3-3) Mortensen  
 Summer term 1949 and alternate summers. Material fee, \$2.50.

### SECOND GROUP

101-2 *Invertebrate Zoology* (3-3) Mortensen  
 A systematic study of invertebrate forms, including the study of morphology, classification, life histories, and phylogenetic relationships. Occasional field trips. Prerequisite: Zoology 1-2 or Biology 1-2. Material fee, \$4.50 a term. Lecture (1 hour); laboratory (4 hours). 1948-49 and alternate years—afternoon. 1949-50 and alternate years—evening.

105 *Entomology* (3) Munson  
 A study of the elementary morphology, physiology, and ecology of insects, with an introduction to the taxonomy of the more important groups. Prerequisite: Zoology 1-2, or the equivalent. Material fee, \$5. Lecture (1 hour)—evening; laboratory (4 hours)—evening and Saturday morning sections. (Also offered 1948 summer term.)

\* See also the departments of Biology and Botany, pages 160-61 and 162-63.

- 122 *Zoological Theories* (3) Young  
A review of the theories which have affected the development of the various phases of the progress of Zoology. Prerequisite: Zoology 1-2 and one additional year of a biological science. Morning.
- 134 *Ornithology* (3)  
The birds of eastern North America. Material fee, \$4.50. (Not offered in 1948-49.)
- 137 *Histology* (3) Young  
An introduction to the microscopical anatomy of normal tissues and organs. Prerequisite: Zoology 1-2. Material fee, \$6. 1948-49 and alternate years, lecture (1 hour); laboratory (4 hours)—afternoon. 1949-50 and alternate years—evening. (Also offered 1948 summer term.)
- 141-42 *Comparative Vertebrate Anatomy* (3-3) Hansen  
Lectures on the organ systems of the vertebrates; laboratory dissections of types. Prerequisite: Zoology 2. Material fee, \$6 a term. Lecture (1 hour)—afternoon and evening sections; laboratory (2 hours)—morning, afternoon, and evening sections. (Also offered 1948 summer term.)
- 144 *Introduction to Vertebrate Embryology* (3) Hansen  
The origin and early development of the individual and the formation of organ systems. Emphasis is placed on the frog, chick, and pig, with reference to the human embryo. Prerequisite: Zoology 2, and 141 or 142. Material fee, \$6. Lecture (1 hour); laboratory (2 hours)—afternoon. (Also offered 1948 summer term.)  
Zoology 144x—same as Zoology 144, but offered fall term. Evening.
- 147-48 *Experimental Morphology* (3-3) Hansen  
Lectures and class reports on experimental morphology. Prerequisite: Zoology 141-42 or the equivalent. 1948-49 and alternate years, evening.
- 152 *Protozoa* (3) Mortensen  
An introduction to the protozoa: classification, life histories, and physiology, with special emphasis on free-living types. Prerequisite: Zoology 1. Material fee, \$4.50. 1948-49 and alternate years. Lecture (1 hour), laboratory (4 hours)—evening.
- 156 *Parasitology* (3) Kates  
An introduction to the study of animal parasitology, with a survey of parasitic types from protozoa through arthropods. Prerequisite: Zoology 1-2 or the equivalent. Material fee, \$6. Evening.
- 171-72 *Special Problems* (3-3) The Staff  
Written approval of the instructor is required. Material fee, \$6 a term. Time to be arranged.
- 199-200 *Proseminar* (3-3) The Staff  
A course designed to correlate and supplement the work of zoology majors. Morning.



## THIRD GROUP

- |         |   |           |
|---------|---|-----------|
| 203-4   | <i>Seminar in Invertebrate Zoology</i> (3-3)  | Mortensen |
|         | Time to be arranged.  |           |
| 251-52  | <i>Seminar in Vertebrate Zoology</i> (3-3)  | Hansen    |
|         | Time to be arranged.  |           |
| 295-96  | <i>Research</i>   | The Staff |
|         | Investigation of special problems. Time and credits to be arranged.<br>(Also offered 1948 summer term.) |           |
| 299-300 | <i>Thesis</i> (3-3)   | The Staff |



UNIVERSITY ORGANIZATIONS





## ALUMNI AND ALLIED ASSOCIATIONS

### THE GENERAL ALUMNI ASSOCIATION

The objects of this Association are to unite the graduates in closer sympathy and to promote the general welfare of the University. The following persons are eligible for *active* membership: graduates of any college, school, or division of the University; holders of honorary degrees from the University; and members of the Board of Trustees and of the Faculty of the University. Any person who has matriculated, who has been in regular attendance for one year, and who has left the University in good standing, is eligible for *associate* membership.

The Alumni Office is situated at 2018 I Street, Washington, D. C. Alumni are urged to keep the Secretary informed of changes of address or occupation and to supply information with regard to their fellow alumni.

1947-48

*President*.—Alexander Wetmore, M.S. 1916, Ph.D. 1920, Sc.D. 1932 (A.B. 1912, University of Kansas); 204 Maple Avenue, Takoma Park, Md.

#### *Vice Presidents:*

*Columbian College*.—Elmer L. Kayser, A.B. and T.D. 1917, A.M. 1918, LL.D. 1948 (Ph.D. 1932, Columbia University); 2921 34th Street, Washington, D. C.

*Graduate Council*.—Helen M. Dyer, M.S. 1929, Ph.D. 1935 (A.B. 1917, Goucher College); Apt. 302 C, Tilden Gardens, Washington, D. C.

*School of Medicine*.—William Earl Clark, M.D. 1904; 1835 I Street, Washington, D. C.

*Law School*.—Paul E. Shorb, LL.B. 1920 (A.B. 1917, University of North Dakota); 740 15th Street, Washington, D. C.

*School of Engineering*.—William J. Ellenberger, B.S. in E.E. 1930, B.S. in M.E. 1934; 6419 Barnaby Street, Washington, D. C.

*School of Pharmacy*.—William Paul Briggs, B.S. in Phar. 1928 (M.S. 1930, University of Maryland; Sc.D. 1947, Philadelphia College of Pharmacy and Science); 6000 7th Street, Washington, D. C.

*School of Education*.—May P. Bradshaw, A.B. and T.D. 1909, A.M. 1913; 1631 S Street, Washington, D. C.

*School of Government*.—John T. C. Daugherty, A.B. in Govt. 1940, LL.B. 1943; 1472 Belmont Street, Washington, D. C.

*Dental School*.—Sterling V. Mead, D.D.S. 1914; 1149 16th Street, Washington, D. C.

*Treasurer.*—Anna M. Bischoff, A.B. 1928; 2025 I Street, Washington, D. C.

*Executive Secretary.*—Lester Allan Smith, A.B. in L.S. 1932, A.M. in L.S. 1935; 1825 Ontario Place, Washington, D. C.

*Executive Committee:*

Vernon L. Brown, A.B. 1927 (M.B.A. 1941, New York University); 46 Cedar Street, New York City.

W. Cameron Burton, LL.B. 1921; Investment Building, Washington, D. C.

Charles W. Cole, A.B. 1930, A.M. 1931, Ph.D. 1939; 2747 Ordway Street, Washington, D. C.

Thomas R. Edmonston, B.S. in C.E. 1937; 606 Pickwick Lane, Chevy Chase, Md.

Jessie Fant Evans (Mrs. Joshua Evans, Jr.), A.B. and T.D. 1913, Ed.D. 1932; 3405 Lowell Street, Washington, D. C.

Lucile M. Herrick, A.M. 1938, Ed.D. 1942 (B.S. 1924, University of Minnesota, LL.B. 1934, Southeastern University); Veterans Administration, Washington, D. C.

Dorothy S. Jaeger, M.D. 1939; 425 Greenbrier Dr., Silver Spring, Md.

A. Grace Lind, A.B. and B.Dip. in Ed. 1927 (A.M. 1932, Columbia University); 3373 Rittenhouse Street, Washington, D. C.

Jessie C. Nixon, A.B. in Govt. 1933; 4215 Second Road, N., Arlington, Va.

Clyde P. Reeves, M.D. 1933; 1028 Connecticut Avenue, Washington, D. C.

William M. Sweet, D.D.S. 1918; 1835 I Street, Washington, D. C.

William C. Thom, B.S. in C.E. 1904, C.E. 1905; 1346 Hemlock Street, Washington, D. C.

Bolon Turner, A.B. 1922, LL.B. 1922, LL.M. 1924; U. S. Tax Court, Washington, D. C.

Frank H. Weitzel, A.B. 1931, LL.B. 1935; 6294 29th Street, Washington, D. C.

THE GEORGE WASHINGTON UNIVERSITY MEDICAL SOCIETY

The George Washington University Medical Society, the organization of graduates of the School of Medicine, was established in 1905 and since 1926 has been affiliated with the General Alumni Association. The objects of the Society, as stated in the constitution, are "The promotion of the science and art of medicine and the welfare of the School of Medicine".

1948-49

*President.*—James I. Boyd, A.B. 1923, M.D. 1926, M.S. 1927; Upper Marlboro, Md.

*President-Elect.*—Herbert S. Gates, M.D. 1923; 4480 Dexter Street, Washington, D. C.

*First Vice President.*—Russell McNitt, M.D. 1925, B.S. in Med. 1925; 1801 I Street, Washington, D.C.

*Second Vice President.*—Florence E. Grady, A.B. 1930, M.D. 1939; 3718 Ingomar Street, Washington, D. C.

*Secretary-Treasurer.*—Oscar B. Hunter, M.D. 1912, A.B. 1916, A.M. 1917; Suite 1000, Columbia Medical Building, 915 19th Street, Washington, D. C.

*Council:*

William M. Ballinger, A.B. 1921, M.D. 1924; 4923 Hillbrook Lane, Washington, D. C.

Robert H. Harmon, M.D. 1929 (A.B. 1915, Millsaps College); 1150 Connecticut Avenue, Washington, D. C.

Fred A. J. Geier, M.D. 1925; 4948 Lowell Street, Washington, D. C.

J. Burton Glenn, M.D. 1921; 2015 Q Street, Washington, D. C.

Clyde P. Reeves, M.D. 1933; 1028 Connecticut Avenue, Washington, D. C.

(Officers of the Society are ex officio members of the Council.)

THE GEORGE WASHINGTON LAW ASSOCIATION

The George Washington Law Association, the organization of graduates of the Law School, was founded in 1912 and has been affiliated with the General Alumni Association since 1926. Its purposes as stated in the constitution are to promote high standards of legal education, to keep the alumni of the Law School in closer touch with one another and especially with members of their own classes, to gather and publish at intervals information as to the whereabouts and activities of these alumni, and to further the interests of the Law School.

1948-49

*President.*—W. Cameron Burton, LL.B. 1921; Investment Building, Washington, D. C.

*First Vice President.*—Charles S. Rhyne, LL.B. 1937; 730 Jackson Place, Washington, D. C.

*Second Vice President.*—Eileen C. O'Connor, J.D. 1941; 1 Scott Circle, Washington, D. C.

*Third Vice President.*—Oliver E. Pagan II, A.B. 1934, LL.B. 1937; Shoreham Building, Washington, D. C.



*Secretary-Treasurer.*—Dayton M. Harrington, LL.B. 1942; 1367 Connecticut Avenue, Washington, D. C.

*Executive Committee:*

Charles R. Allen, Ex-1920; Washington Loan and Trust Building, Washington, D. C.

Mary Agnes Brown, A.B. 1924, LL.B. 1932, S.J.D. 1942; 4606 15th Street, Washington, D. C.

Howard P. Locke, LL.B. 1927; Tax Division, Department of Justice, Washington, D. C.

Frank H. Weitzel, A.B. 1931, LL.B. 1935; 6294 29th Street, Washington, D. C.

#### THE LIBRARY SCIENCE ALUMNI ASSOCIATION

The Library Science Alumni Association was organized in 1932 by graduates of the Division of Library Science and became an affiliate of the General Alumni Association in 1935. It was established to foster a closer relationship between the Faculty and graduates and to further the interests of the Division of Library Science and of the University as a whole.

1948-49

*President.*—Matthew A. McKavitt, A.B. in L.S. 1934; 1623 Monroe Street, Washington, D. C.

*Vice President.*—Mary E. Kelso, A.B. in L.S. 1940; 402 Oakwood Street, SE., Washington, D. C.

*Secretary.*—A. Marguerite Matthews, A.B. in L.S. 1939; 9214 Midwood Road, Woodside Forest, Silver Spring, Md.

*Treasurer.*—Helen C. Sunday, A.B. in L.S. 1935; 525 Third Street, NE., Washington, D. C.

#### THE ENGINEER ALUMNI ASSOCIATION OF THE GEORGE WASHINGTON UNIVERSITY

The Engineer Alumni Association was organized in 1936 and has been affiliated with the General Alumni Association since that time. Its objects are to unite the graduates and Faculty of the School of Engineering in closer fellowship, to promote the general welfare of the School of Engineering and of the University at large, to foster activities of the engineering organizations recognized by the University, and to advance the profession of engineering in general.

1947-48

*President.*—Philius H. Girouard, B.S. in M.E. 1926; 3401 Patterson Street, Washington, D. C.

*Vice President.*—Merwyn N. McKnight, B.S. in M.E. 1938, B.E.E. 1941; 1704 N. Calvert Street, Arlington, Va.



*Recording Secretary.*—Robert G. Weston, B.E.E. 1943; 18 Patrick Henry Drive, Arlington, Va.

*Corresponding Secretary.*—J. Harold Link, B.S. in E.E. 1940; 2500 K Street, Washington, D. C.

*Executive Committee:*

Henry H. Snelling, B.S. in M.E. 1913; 6708 45th Street, Chevy Chase, Md.

Thomas R. Edmonston, B.S. in C.E. 1937; 606 Pickwick Lane, Chevy Chase, Md.

Daniel O. Hunter, B.S. in E.E. 1937; 4774 N. 25th Street, Arlington, Va.

THE GEORGE WASHINGTON UNIVERSITY NURSES ASSOCIATION

The George Washington University Nurses Association was organized in 1914. In 1936 this organization was made an integral part of the General Alumni Association, and graduates of the School of Nursing were accorded associate membership. The objects of the Association are to hold in unison the graduates of the George Washington University Hospital School for Nurses, to care for its sick members, and to promote the advance of nursing in the interest of the George Washington University Hospital.

1947-48

*President.*—Ruth Poindexter, N.Cert. 1924; 1430 Belmont Street, Washington, D. C.

*Vice President.*—Laura Sandres, N.Cert. 1924; 1100 25th Street, Washington, D. C.

*Secretary.*—Mrs. Katherine McCready del Valle, N.Cert. 1928; 1800 I Street, Washington, D. C.

*Treasurer.*—Mrs. Mary Schmid Kelley, N. Cert. 1929; 5519 Sherrier Place, Washington, D. C.

REGIONAL ALUMNI CLUBS

Regional alumni clubs sponsored by the General Alumni Association are maintained in the following places: Little Rock, Ark.; Los Angeles, Calif.; Northern California; Denver, Colo.; Chicago, Ill.; Portland, Maine; Baltimore, Md.; Detroit, Mich.; Kansas City, Mo.; St. Louis, Mo.; New York, N. Y.; Cleveland, Ohio; Toledo, Ohio; the Ohio River Valley (Cincinnati and adjacent sections of Kentucky and Ohio); Oklahoma City, Okla.; Pittsburgh, Pa.; Dallas, Tex.; Salt Lake City, Utah; Richmond, Va.; Seattle, Wash.; Milwaukee, Wis.; New England; Philippine Islands; Puerto Rico.

Information about the officers and activities of these clubs may be obtained from the Alumni Secretary of the University.

## THE GRADUATE ENDOWMENT FUND

The Graduate Endowment Fund was founded by the class of 1926 with the object of providing endowment to be used for the development of the University. Membership is limited to seniors and graduates who sign a pledge of \$100, payable annually in ten equal installments.

The pledge notes and funds are held in trust. When the principal reaches the sum of \$100,000, the Board of Administrators of the Fund may pay to the University such sums as it may vote for erection of buildings, acquisition of sites, maintenance, and purchase of equipment. At no time may money be drawn so as to leave a balance of less than \$50,000 on deposit.

On request, the Director of Alumni Relations of the University will furnish pledge blanks to alumni.

## THE COLUMBIAN WOMEN

The objects of this organization are (1) the promotion of acquaintanceship among its members; (2) the advancement of women by the founding of scholarships in the various departments of the University; and (3) the promotion of the interests of the University.

## MEMBERSHIP

1. The following persons shall be eligible for active membership: (a) any woman who for one year has been a regularly registered student in The George Washington University, provided that she shall have received credit for thirty hours of work; (b) any woman member of the Faculties or Board of Trustees, any woman on the administrative staff; the wife or recognized head of the household of any member of the Faculties, Board of Trustees, or of the administrative staff; (c) any woman recipient of an honorary degree from the University.

1948-49

*President.*—Ruby Nevins, A.B. and T.D. 1917, A.M. 1922; The Kene-saw, Washington, D. C.

*First Vice President.*—Mrs. Tomas Cajigas; 4605 Charleston Terrace, Washington, D. C.

*Second Vice President.*—Miss Winifred Alvather, B.S. 1942; 3521 W Place, Washington, D. C.

*Corresponding Secretary.*—Mrs. Edgar W. Woolard; 1232 30th Street, Washington, D. C.

*Assistant Corresponding Secretary.*—Elizabeth Benson, A.B. in Ed. 1931; Gallaudet College, Florida Avenue at 7th Street, NE., Washington, D. C.

*Recording Secretary.*—Mrs. J. Beaty Griffith, A.B. 1922; 1746 K Street, Washington, D. C.

*Treasurer.*—Mrs. George Blanchard, A.B. 1916; 806 Massachusetts Avenue, NE., Washington, D. C.

*Historian.*—Irene Pistorio, B.S. in Arch. 1904; 2442 20th Street, Washington, D. C.

THE WOMEN'S BOARD OF THE GEORGE WASHINGTON  
UNIVERSITY HOSPITAL

The object of this organization is to aid in every way the interests and advancement of The George Washington University Hospital. Meetings are held on the first Wednesday of each month, October to June, inclusive. Inquiries regarding membership should be addressed to the Corresponding Secretary, The George Washington University, Washington 6, D. C.

1948-49

*President.*—Mrs. Cloyd Heck Marvin

*Vice President.*—Mrs. G. Louis Weller

*Vice President.*—Mrs. Gilbert Grosvenor

*Vice President.*—Mrs. Walter A. Bloedorn

*Recording Secretary.*—Mrs. Henry W. Herzog

*Corresponding Secretary.*—Mrs. Glen M. Vickrey

*Assistant Corresponding Secretary.*—Mrs. W. Y. Handy

*Treasurer.*—Mrs. John Withrow Brewer

*Assistant Treasurer.*—Mrs. Barton W. Richwine



## HONOR SOCIETIES

*Phi Beta Kappa*.—A national honor society recognizing "outstanding intellectual capacity well employed" in the field of liberal arts and sciences. Senior and junior students who are candidates for the degree of Bachelor of Arts or Bachelor of Science in Columbian College (in exceptional cases, senior and junior students in other non-professional divisions of the University) and who have shown broad cultural interests, distinguished scholarly achievement, high character, general promise, and scholarly ideals may, to a number not exceeding 15 per cent of a class, be elected to membership by the Faculty members of the Alpha Chapter of the District of Columbia.

*Sigma Xi*.—A national scientific honor society, the purpose of which is to encourage original investigation in science pure and applied. Outstanding graduate students in the sciences are eligible for full membership, and undergraduates who have shown marked ability in research may be elected to associate membership.

*Order of the Coif*.—A national legal society, the purpose of which is to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship. Members are elected each year from the highest 10 per cent of the graduating class of the Law School.

*Sigma Tau*.—A national engineering fraternity, the purpose of which is to recognize scholarship and professional attainment.

*Kappa Kappa Psi*.—A national honor society for college bandmen.

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*Alpha Lambda Delta*.—A national fraternity established to encourage and reward high scholarship and attainment, membership in which is limited to those freshman women who attain a scholastic average of at least 3.50.

*Artus*.—A national economics society.

*Delphi*.—An intersorority society.

*Delta Sigma Rho*.—A national forensic honor society.

*Gate and Key*.—An interfraternity society.

*Iota Sigma Pi*.—A national honorary chemical society for women.

*Mortar Board*.—A national honorary society for senior college women, stressing leadership, scholarship, and service.

*Omicron Delta Kappa*.—A national fraternity emphasizing leadership in extracurricular activities.

*Phi Delta Kappa*.—A national honorary fraternity for men in the field of education.



*Phi Eta Sigma*.—A national fraternity, established to encourage and reward high scholarship and attainment, membership in which is limited to those freshman men who attain a scholastic average of at least 3.50.

*Pi Delta Epsilon*.—A national honorary collegiate journalism fraternity.

*Pi Epsilon Delta*.—National Collegiate Players.

*Pi Gamma Mu*.—A national social-science society.

*Pi Lambda Theta*.—A national honorary fraternity for women in the field of education.

*Sigma Pi Sigma*.—A national honorary physics fraternity.

*Sigma Rho*.—Honorary research society in physiology.

*Smith-Reed-Russell Society*.—A scholastic society in the School of Medicine. Students of the third and fourth years who maintain a scholastic average of 86 percent are eligible for associate membership.

*William Beaumont Medical Society*.—A society founded with the object of encouraging and stimulating medical students in work of individual investigation.

## STUDENT ORGANIZATIONS

### PROFESSIONAL FRATERNITIES

Alpha Chi Sigma (chemistry), Alpha Epsilon Iota (medicine), Alpha Kappa Psi (commerce and economics), Alpha Pi Epsilon (home economics), Alpha Zeta Omega (pharmacy), Chi Upsilon (geology), Delta Phi Epsilon (foreign service), Delta Theta Phi (law), Future Teachers of America, Kappa Beta Pi (law), Mortar and Pestle (pharmacy), Nu Sigma Nu (medicine), Phi Alpha Delta (law), Phi Chi (medicine), Phi Delta Delta (law), Phi Delta Epsilon (medicine), Phi Delta Gamma (graduate), Phi Delta Phi (law), Phi Pi Epsilon (foreign service), The Society for the Advancement of Management, Student Branch American Pharmaceutical Association, Theta Tau (engineering).

### SOCIAL FRATERNITIES

Sigma Chi, Kappa Sigma, Kappa Alpha, Theta Delta Chi, Phi Sigma Kappa, Sigma Alpha Epsilon, Sigma Phi Epsilon, Phi Alpha, Sigma Nu, Acacia, Tau Kappa Epsilon, Pi Kappa Alpha, Argonauts, Tau Epsilon Phi, Alpha Epsilon Pi, Delta Tau Delta.

### SOCIAL SORORITIES

Pi Beta Phi, Chi Omega, Sigma Kappa, Phi Mu, Alpha Delta Pi, Delta Zeta, Kappa Delta, Phi Sigma Sigma, Zeta Tau Alpha, Kappa Kappa Gamma, Delta Gamma, Kappa Alpha Theta, Omicron Alpha.

### DEPARTMENTAL CLUBS

Student Bar Association; American Society of Civil Engineers; Dance Production Groups I, II, III; American Institute of Electrical Engineers; Engineering Council; El Club Espanol; Colonial Forensics Society; Le Cerele Francais Universitaire; George Washington University Geographical Society; Hellenic Society; Charles Clinton Swisher History Club; Home Economics Club; Literary Club; American Society of Mechanical Engineers; Howard F. Kane—A. F. A. King Obstetrical Society; Psychology Club; Schoenfeld Verein; Lester F. Ward Sociological Society; Tironians (secretarial).

### RELIGIOUS ORGANIZATIONS

Baptist Student Union, B'nai B'rith Hillel Foundation, Canterbury Club, Christian Science Organization, Luther Club, Newman Club, Religious Council, Wesley Club, Westminster Club.

### MUSICAL ORGANIZATIONS

Girls' Glee Club, Men's Glee Club, Symphony Club, University Band.

STUDENT PUBLICATIONS

*The Cherry Tree* (the annual), *The University Hatchet* (weekly newspaper), *The George Washington Law Review*, *Mecheleciv* (engineers' publication), *The Surveyor* (literary magazine), *The Percolator* (pharmaceutical publication).

OTHER ACTIVITIES

Alpha Theta Nu (scholarship winners), Big Sisters, Cogs, Current Affairs Club, Independent Students Association, Inter-American Club, Inter-fraternity Council, Inter-fraternity Pledge Council, International Students Society, Junior Panhellenic Council, Martha Washington Club, Masonic Club, Panhellenic Council, Pistol Club, Radio Workshop, Sailing Club, Student Council, Student Drama Group, Student Veterans of World War II, The George Washington University Players, Women's Recreation Association, World Government Seminar Group.





INDEX



## INDEX

### A

- Academic Council. **xxi-xxii**
- Academic Status of the University, 5
- Accounting:
  - Associate in Arts curriculum in, 61
  - Bachelor of Arts curriculum in, 138-39, 140
  - Courses on, 164, 166, 167, 168
  - Master of Arts curriculum in, 143-44
- Activities, student
  - SEE special bulletin
- Administration, officers of, **xix-xx**
- Administrative Assistants, **lx-lxiv**
- Admission, 10-18
- Advanced standing, 11-12
- Advisory system, Junior College, 51
- Aesthetics, course on, 247
- Alumni and Allied Associations, 309-15
- Anatomy, courses in, 153, 304
- Anesthesiology, courses in, 154
- Art, courses in, 153-56
- Arts and Sciences, college of, 63-79
- Attendance, 34, 38
  - SEE Also under Colleges, Schools, and Divisions
- Auditor, 22, 36

### B

- Bacteriology, courses in, 157-58
- Biblical Literature, courses on, 277-78
- Biochemistry, courses in, 159
- Biology, courses in, 160-61
- Botany, courses in, 162-63
- Buildings of the University, 7-8
- Business Administration:
  - Bachelor of Arts curriculum in, 140
  - Courses in, 164-68
  - Master of Arts curriculum in, 144

### C

- Calendar for 1948-49, **vii-xi**
- Caribbean Area, courses on:
  - SEE Latin America
- Cartology, course on, 198
- Central America, courses on:
  - SEE Latin America

- Change in program of studies, 36
- Chapel, 42
- Chemistry, courses in, 169-72
- Civil Engineering:
  - Courses in, 173-75
  - Curriculum in, 109
- Classical Languages and Literatures, courses in, 176
- Climatology, course on, 198
- College Entrance Board examinations, 11
- Columbian College (senior college of liberal arts), 63-79
  - Entrance requirements, 12-13, 55-56
  - Prerequisite to Bachelor of Arts and Bachelor of Science curricula in, 68-69
- Commerce, courses on, 165, 167, 168, 182, 181, 200
- Communications option in Electrical Engineering, 110
- Contents, Table of, **v-vi**
- Continuous registration, 34, 84
  - Residence fee for, 21
- Correspondence courses, 70
- Counseling, courses on, 188, 274
- Course numbers, explanation of, 151-52
- Courses of instruction, 149-305
- Credit:
  - Credit hour, explanation of, 152
  - Explanation of amount of, 152
  - Toward a degree, 36-37
  - Transfer of:
    - For correspondence and home study courses, 70
    - For professional courses, 71-72
    - For summer school work, 37
    - From other institutions, 11-12, 14, 15, 16
    - Within the University, 71-72

### D

- Dance, courses on, 254, 255, 257
- Degrees:
  - Associate in Arts, 53-62
  - In Accounting, 53-55, 61
  - In Secretarial Studies, 53-55, 61

## Degrees—Continued

- Bachelor of Arts, 72-73, 73-75
  - In Education, 126-27
  - In Government, 138-41
- Bachelor of Civil Engineering, 107-9
- Bachelor of Electrical Engineering, 107-8, 110-11
- Bachelor of Laws, 102
- Bachelor of Mechanical Engineering, 107-8, 111-12
- Bachelor of Science, 70-72, 73-75
  - In Engineering, 107-8, 112-13
  - In Home Economics, 126-27, 128
  - In Pharmacy, 118-20
  - In Physical Education for Men, 126-27, 128-29
  - In Physical Education for Women, 126-27, 129-30
- Civil Engineer, 113-14
- Combined Bachelor of Arts and Doctor of Medicine, 72-73, 94
- Doctor of Education, 133-34
- Doctor of Juridical Science, 102, 103
- Doctor of Medicine, 94
- Doctor of Philosophy, 81-83
- Electrical Engineer, 113-14
- Juris Doctor, 102
- Master of Arts, 75-76, 76-79
  - In Education, 132-33
  - In Government, 141-45
- Master of Comparative Law, 103
- Master of Laws, 102-3
- Master of Science, 75-76, 76-79
  - In Pharmacy, 121-22
- Mechanical Engineer, 113-14
- Dermatology, courses in, 177
- Dismissal of Students, 40
- Divisional organization, 67-68
- Doctoral dissertation, form of, 38
- Dormitories, 42-43
- Dramatics, courses on, 291, 292, 293
- Dropping courses, 36

## E

- Economic Relations, major in, 138-40
- Economics, courses in, 178-83
- Education:
  - Courses in, 184-89
  - School of, 123-34
  - Entrance requirements, 16-17, 58-59
- Educational facilities of the University, 7-9

## Electrical Engineering:

- Communications option in, 110
- Courses in, 190-92
- Curriculum in, 110-11
- Power option in, 111
- Embryology, courses on, 153, 304
- Emeritus Faculty, xxv-xxvi
- Employment, student, 43
- Endowment of the University, 5
- Engineering:
  - Courses in, 173-75, 190-92, 224-27
  - School of, 104-14
  - Entrance requirements, 15-16
- English:
  - Courses in, 193-97
  - Placement examination, 51-52
- Entrance requirements, 12-18
- Examinations, 35
  - College Entrance Board, 11
  - For placement in language courses, 51-52
  - For qualifying for advanced standing or waiving curriculum requirements, 62, 72, 141
- SEE ALSO "September" and "February" in the University calendar
- Graduate Record, 10-11
- Scholastic Aptitude Tests, 41, 51

## F

## Faculty:

- Alphabetical list, xxvii-lix
- Standing Committees, xxiii-xxiv
- Far East, courses on, 267, 268
- Fees, 20-22
- Fellowships, 23, 84
- Financial Regulations, 20-22
- Foreign Affairs:
  - Bachelor of Arts curriculum in, 138-39
  - Master of Arts curriculum in, 143
- Foreign language:
  - Placement examination, 51-52
  - Requirements, 54-55
- Fraternities, 318
- French:
  - Courses in, 270-81
  - Placement examination, 51-52

## G

- Genetics, courses on, 160-61
- Geography, courses in, 198-200
- Geology, courses in, 201



Germanic Languages and Literatures,  
courses in, 202-3  
Government, School of, 135-45  
Entrance requirements, 17, 60  
Government and Economic Policy, Mas-  
ter of Arts curriculum in, 144  
Grades, 34-35, 91-92, 100  
Grading System, 34-35, 91-92, 100  
Graduate Council, 13, 80-84  
Research fields:  
See special bulletin  
Graduate Record examination, 11  
Graduation:  
Application for, 37-38  
Requirements, 37-38  
Greek, courses in, 176  
Gynecology, courses in, 235-36

## II

Health Administration, Department of,  
42, 204  
History:  
Courses in, 205-9  
Of the University, 3-5  
Home Economics:  
Courses in, 210-12  
Curriculum in, 58, 128  
Home Study courses, 70  
Honor Roll, 53  
Honor Societies, 316-17  
Honors, 38-39, 62, 94, 102  
Hospitalization, 204  
Hours of instruction, 151  
In the Law School, 100  
Hygiene, course on, 158

## I

Independent study plan, 70, 138  
Indo-European languages, course on,  
203  
Internships, 93, 95

## J

Journalism, courses in, 213  
Junior College, 47-62  
Entrance requirements, 12

## L

Laboratory fees and deposits, 20  
See Also Courses of Instruction  
Language Placement Examination, 51-  
52

Language Requirements, 54-55  
Languages and Literatures, Division of,  
67  
Latin, courses in, 176  
Latin America, courses on, 180, 181,  
182, 206, 207, 208, 266, 283, 284  
Latin American Civilization and Cul-  
ture, Columbian College major in,  
72, 178  
Law:  
Course of study for foreign lawyers,  
98-99  
Courses in, 214-20  
Review, 98  
School, 96-103  
Entrance requirements, 14-15  
Liberal Arts, college of, 63-79  
Library, 8-9  
Hours, 39-40  
Law, 39, 97-98  
Medical, 39, 89  
Resolutions, 39  
Living Accommodations, 42-43  
Loan funds, 33  
Location:  
Of the School of Medicine, 7  
Of the University, 6

## M

Major fields in Columbian College, 72,  
73-75  
Marketing, courses on, 167, 168  
Mathematics, courses in, 221-23  
Mathematics and Physical Sciences,  
Division of, 67  
Mechanical Engineering:  
Courses in, 224-27  
Curriculum in, 111-12  
Medical privileges, 204  
Medical Technologist Course, 95  
Medicine:  
Graduate and postgraduate instruc-  
tion in, 94-95  
School of, 85-95  
Entrance requirements, 13-14, 57  
Undergraduate courses in, 228-31  
Military Science and Tactics, courses  
in, 232  
Musical Organizations, 318

## N

Natural Sciences, Division of, 67  
Near East, course on, 207  
Neurology and Neurological Surgery,  
233-34

## O

- Obstetrics, courses in, 235-36
- Ophthalmology, courses in, 237
- Orthoptic Technician Training course, 95
- Oto-rhino-laryngology, courses in, 238

## P

- Pacific Area, courses on, 267, 268
- Pathology, courses in, 239
- Pediatrics, courses in, 240-41
- Personnel Administration:
  - Courses on, 165, 188, 227, 272, 274, 275
  - Master of Arts curriculum in, 145
- Pharmacology, courses in, 242
- Pharmacy:
  - Courses in, 243-46
  - School of, 115-22
  - Entrance requirements, 16, 57
- Philosophy, courses in, 247-48
- Physical Education:
  - Courses in:
    - For men, 249-53
    - For women, 254-57
  - Curriculum:
    - For men, 128-29
    - For women, 129-30
  - Requirements, 37
- Physical examinations, 37
- Physical Medicine, courses in, 258
- Physics, courses in, 259-62
- Physiology, courses in, 161, 163, 263-64
- Placement Office, 43
- Political Relations, major in, 143
- Political Science, courses in, 265-68
- Portuguese, courses in, 282
- Power option in Electrical Engineering, 111
- Premedical curriculum, 57
- Preventive Medicine, courses in, 158
- Prizes, 28-33
- Probation:
  - SEE UNDER Colleges, Schools, and Divisions
- Property, responsibility for, 44
- Psychiatry, courses in, 269-70
- Psychology, courses in, 271-75
- Public Administration:
  - Courses on, 227, 266, 267
  - Master of Arts curriculum in, 144
- Publications, student, 319

## Q

- Qualifying examinations, 62, 72, 141
- SEE ALSO "September" and "February" in the University calendar
- Quality-point index, 35

## R

- Radio, course on, 291
- Radiology, courses in, 276
- Records, transcripts of, 37
- Recreation, Physical Education specialty in, 128, 129, 130
- Refunds, 22
- Registration, 19, 34
- Regulations, 34-40
- SEE ALSO under Colleges, Schools, and Divisions
- Religion, courses in, 277-78
- Religious Organizations, 42, 318
- Reserve Officers' Training Corps (Medical), 92-93
- Residence Halls, 42-43
- Residence requirements, 38
- SEE ALSO under Colleges, Schools, and Divisions
- Romance Languages and Literatures:
  - Courses in, 279-84
  - Placement examinations, 51-52
- Rules of the University, right to change, 40
- Russia, courses on, 266, 265, 266

## S

- Sanskrit, course on, 203
- Scholarship, 34-35, 38
- SEE ALSO under Colleges, Schools, and Divisions
- Scholarships, 24-28
- Scholastic Aptitude Tests, 41, 51
- Secretarial Studies:
  - Courses in, 285-86
  - Curriculum in, 61
- Social Sciences, Division of, 68
- Sociology, courses in, 287-89
- Sororities, 318
- South America, courses on:
  - SEE Latin America
- Spanish:
  - Courses in, 282-84
  - Placement examination, 51-52
- Special Students, Division of, 18, 147

Speech, courses in, 290-93  
Staff of Instruction, alphabetical list,  
xxvii-lix

Statistics:

Bachelor of Arts curriculum in, 141  
Business and Economic, 141, 144  
Courses in, 294-98

Student:

Activities

SEE special bulletin

Bar Association, 99

Employment, 43

Organizations, 318-19

Publications, 319

Summer Sessions, 148

Surgery, courses in, 299-301

Surveying, courses on, 173, 174, 175

Suspension:

SEE UNDER Colleges, Schools, and  
Divisions

Syphilology, courses in, 177

T

Thesis, requirements for, 38

Transcripts of records, 37

Transportation, courses on, 168

Trustees:

Board of, xv-xvi

Committees of the Board of, xvii-  
xviii

U

University Students, Division of, 17-18,

146

Urology, courses in, 302

V

Veterans, 41

Vocational counseling:

Courses on, 274

Master of Arts curriculum in, 145

Washington Counseling Center, 43

W

Warnings, 54

Washington Counseling Center, 41, 43

Withdrawal, 22, 35-36

Z

Zoology, courses in, 303-5





THE UNIVERSITY RECORD

SUMMER TERM 1947

FALL AND WINTER TERMS 1947-48



## NOVEMBER 11, 1947

Aiken, Bernard	Md.	Campbell, Patricia Margaret	D.C.
Ainsden, Basil Jacqueline	Md.	Campbell, Robert Alexander, Jr.	N.I.
Am, Jan, Robert Harde	D.C.	Carr, Victor Charles	D.C.
Anderson, Carl Robert	Pa.	Carr, William M. Anceux	D.C.
Andrews, Robert Bruce	Mass.	Carruth, Charles Arthur, Jr.	Va.
Andrews, Alexander	D.C.	Carruth, Lawrence Robert	N.J.
Archer, Carl Alexander	Mass.	(With disconnection)	
Auld, Lynn Margaret	Pa.	Casen, Leta Elizabeth	D.C.
Avery, Zella Selzer	N.Y.	Cassidy, James Michael, Jr.	D.C.
Awalt, Gilbert Haslop	D.C.	Cham, George	D.C.
Bachman, Helen	Calif.	Chen, Meng	China
Bailey, Margaret Lucille	D.C.	(With disconnection)	
Bairds, Doris Ruth	Ariz.	Cheney, Anna Ardith	Pa.
Barr, W. Wendell, Jr.	Md.	Clark, George Henry, Jr.	Pa.
Batista, Beatrice Anne	Va.	Clark, George Wendell	Pa.
Bauman, John Lee, Jr.	Neb.	Clark, Thomas Ernest	Calif.
Beard, John Norman, Jr.	D.C.	Clayton, Dean Frederickson	Va.
Beard, Dale Ward	Md.	(With disconnection)	
Beatty, Harry Barrton	Va.	Clegg, Howard Martin	N.Y.
Beatty, Harry L. R. V.	Pa.	Cole, Sam Benjamin	D.C.
Beckman, Raymond William	D.C.	Cole, William	D.C.
Becker, William Carl, Jr.	D.C.	Coleman, Katherine Stewart	Va.
Beckwith, Luskanna Theresa	Ind.	Coleman, Carl Samuel Wesley	Tenn.
Benson, Frank	N.Y.	Collette, Louis Aris	D.C.
Bishop, Mary Catherine	D.C.	Combs, David	D.C.
Blair, George Eugene	Me.	Cop, Nancy Elizabeth	Va.
Blair, H. L. Lee	D.C.	Copple, John	D.C.
Blair, L. E. Lee	D.C.	Copple, Eugene Myrthus, Jr.	S.C.
(With disconnection)		Cox, Herman Ernest	Vt.
Bonnie, Marie Anne	New	Cox, John Nancy	D.C.
Bonnie, Christopher Jean Pierre Edouard	Me.	Cox, Eugene D. van	N.C.
Bonnie, Edward Mark	Me.	Cox, John Leonard	Conn.
Boss, Margaret	Va.	Cox, John Robert	Conn.
Boss, Gerald	N.Y.	Cox, Catherine Bertrice	Me.
Boss, L. E. V.	Va.	Davis, August M. E.	D.C.
Boss, Victor	D.C.	Davis, August	Va.
Boss, Arthur	Ind.	Davis, Robert Herman	Me.
Boss, Frances Louise	Va.	Davis, Richard Joseph	D.C.
Boss, Robert James	Va.	Davis, August Paul	D.C.
Boss, Robert John Weeks	Calif.	Davis, David Ball	Calif.
Boss, Fred C.	N.Y.	Davis, Samuel Joseph	Pa.
Boss, Charles Kenneth	D.C.	Davis, William Taylor, Jr.	N.Y.
Boss, Helen Kern	Wash.	Davis, Samuel	(With disconnection)
Boss, Charles Simon	Va.	DeLoach, Herbert Reuben	D.C.
Boss, Fred Helen	D.C.	Dennis, Thomas Eugene	N.Y.
Boss, David M. Leal	N.I.	Dennis, Thomas Eugene	Me.
Boss, Margaret Elizabeth	Pa.	Dennis, John August	Me.
Boskey, Robert Blair	Va.	Dennis, John August	Ind.
Boskey, L. E. Lee	D.C.	(With disconnection)	
Calkins, L. E. Lee Thomas	D.C.	Dennis, George	D.C.
Calkins, Arthur K. P.	Conn.	Dennis, George William	D.C.
Campbell, William Kimmel	D.C.	Dennis, Robert Bennett	N.Y.
Campbell, John Frederick	D.C.		
Campbell, John Howard	D.C.		

[illegible]



[illegible]

St. Pius, Lewis, Glenn	Va	W. R. Gerald, Cooper	Fla
Stanton, Albert, Clarence	Md	W. H. William, Finkle	Pa
Stanton, David	D.C.	Watson, Vernon, Seidert	Va
St. Peter, Robert, Francis	D.C.	(W. H. Johnston)	
Stanton, Herman, R. C. H.	Mass	Ward, Kenneth, William	N.Y.
Sanet, Leonard, Ralph	Mass	Weber, Martin	Pa
Sawyer, Harold, Carl	Mass	Wells, William	D.C.
T. E. G. Gray, Brant	W. Va.	(W. H. Johnston)	
Taylor, Harry	N.Y.	Well, Edmund, John, Jr	D.C.
Taylor, Ben	D.C.	West, Leo, Portland	Gu
Taylor, Morris	D.C.	West, Max, Lee	D.C.
Taylor, Lee, Charles	Md	Wheeler, Arthur, Adrian	Mass
Taylor, Joseph, Henry	D.C.	Wheatley, Clyde, Fred	D.C.
Tavernier, Frank, Brennan	Va	Wiley, George, Alfred	D.C.
Taylor, Taylor, Henry, Jr.	Va	Wilkinson, F. L. Krietz, Jr	Md
(W. H. Johnston)		(W. H. Johnston)	
Thomas, William, Nelson	Ky	Wilbur, L. R. Raymond	Mass
Thomas, James, James, Jr	Md	Williams, Mary, Margarette	D.C.
Thomas, Paul, Augustus, Jr	Pa	Williams, M. E. E.	D.C.
Thomas, Paul, Bruce	Md	Williams, Robert, Ernest	Tex
Thompson, Elmer, Lee	Md	Wilson, Noel, Charles	Calif
Thompson, George, Lee	Ohio	Wolfe, M. S. S.	D.C.
Thompson, Robert, Miller	D.C.	Woolner, Joseph, Paul	N.Y.
Thompson, Alan, Mervitt	Va	Wright, M. C. E. Joyce	D.C.
Turner, John, Charles	N.C.	(W. H. Johnston)	
Turner, John, Seaborn	Va	Wright, Henry, Everett	N.Y.
Turner, Leonard, Alphon	N.Y.	Wright, Henry, Earl	D.C.
Tyng, John, Robert, Edwin	D.C.	Wright, L. H. Lawrence	Mass
(W. H. Johnston)		Wright, L. H. George, Preston	Fla
Van Stry, James, Cornelius, Jr.	D.C.	Wright, Robert, Royce	Ohio
Vanels, M. J. and Joseph	N.J.	Y. J. D. J. Earl	Pa
Vander, Peter, E. E.	Gu	Y. J. D. J. Earl	Pa
W. R. R. and R. L. L. L.	D.C.	Y. J. D. J. Earl	Pa

## FEBRUARY 23, 1948

Abba, Isaac Isaac	Mich	Baker, William Thomas	Vi
(With distinction)		Baker, Mary Frances	MI
Adams, John	Mich	Baker, Thomas Clayton	DC
Adams, Lyle George	NY	Baker, Thomas Robert	DC
Aiken, William Glenn	Pa	Baker, Charles Robert	DC
Alford, Martha Ann	Vi	Baker, David	N
Allen, Michael Philip	Pa	Baker, Donald Richard	DC
Almon, Robert Alexander	DC	Baker, Margaret Ellen	DC
Alton, George Stanley	NY	Baker, Isaac Jacob	Pa
Altman, John Charles	MI	Baldwin, Thomas Melvin	DC
Altman, Frederick R. V.	DC	Baldwin, Eugene Markley	Vi
Altman, Edward Theodore	Kans	Baldwin, Carl Louis	Pa
Ames, Donald Jerome	MI	Baker, David Louis	Kans
Ames, David Joseph	DC	Cahoon, Albert Hobble	DC
Ames, Roy Charles Ann	Utah	Cahoon, Herbert John, Jr.	NC
Ames, Roy Robert	DC	Cahoon, Lyle Eugene	MI
Anderson, Frederick Joseph	DC	Cahoon, Sylvester	NY
Anderson, Melville	DC	Cahoon, Robert Morris	Tenn
Anderson, Jack	NJ	Cahoon, Donald John	Vi
Anderson, Leonard L.	NY	Cahoon, Lawrence	NJ
Anderson, Stanley Louis	DC	Cahoon, Mary Harold	NY
Anderson, Harold Ralph	Nev	Cahoon, Robert Chester	Pa
Anderson, Arthur Paul	Pa	Cahoon, Carl Conrad	NJ
Anderson, Vernon Ruth	Ill	Cahoon, Carl	D
Armstrong, Andrew John, Jr.	Pa	(With distinction)	
Armstrong, Edgar Rita	DC	Cameron, Lyle Francis	Mass
Baker, Margaret	DC	Carrall, Louis David	DC
Baker, Mary George	NJ	Carrall, Michael Anthony	DC
Baker, Harold Herbert	Tenn	Carrall, Harold LeRoy	DC
Baker, Bruce Henry	NY	Carrall, Charles Philip, Jr.	Pa
Baker, Richard Edgar	DC	Carrall, Lyle Darwin	DC
Baker, Joseph Kane	DC	Carrall, William David	MI
Baker, Allen R. L.	DC	Davis, George Albert, Jr.	MI
Baker, Lyle Albert	Vi	Davis, Benjamin Hilde	Vi
Baker, Robert Edward	Iowa	(With distinction)	
Baker, Richard Lee	Vi	Deutch, Berneice Marie	Wis
Baker, David	Vi		

Dowberry, Willis Elbert	D.C.	Katz, Julius Louis	N.Y.
Dowling, George Lougee	Md.	(With distinction)	
Dowling, William James, Jr.	D.C.	Kavanagh, James Francis	D.C.
Dowling, Robert LeRoy	D.C.	Keller, Arnold M.	Pa.
Dowling, John L.	N.Y.	Kelly, Frank William	Va.
Dowling, Richard Butch	Md.	Kelly, Martin Andrew	D.C.
Dowling, Edward Nicholas	Conn.	Kelly, Stanley	D.C.
Dowling, Martin	Mass.	Kelly, Martin	N.Y.
Dowling, Henry	Pa.	Kelly, Elizabeth Anne	Md.
Dowling, Maurice Obit	Va.	Kennedy, Thomas George	Ohio
Dowling, George Paul	Pa.	Kennedy, Louis	N.Y.
Dowling, George Roe	D.C.	Kenny, Tim	Ill.
Dowling, Sir Robert	D.C.	Kenny, John Ruth	D.C.
Dowling, Ross Cohen	Neb.	Kenny, Bernard Jack	D.C.
Dowling, Donald Edward	Md.	Kennedy, John	D.C.
Dowling, Karl	N.Y.	Kent, Stephen Frederick	Md.
Dowling, Harold Joseph	Pa.	Kent, Robert Victor	Ohio
Dowling, Martin K. Ryan	Ga.	Kennedy, Thomas Mahred	D.C.
Dowling, Nelson Diller III	D.C.	(With distinction)	
Dowling, Karl Fergus Oscar	S.D.	Kenny, Arthur George	Va.
Dowling, Thomas Vinson	Md.	Kenny, Henry William	Pa.
Dowling, Milton	N.Y.	Kenny, William Morris	D.C.
Dowling, Sir	Md.	Kenny, Thomas Joseph	D.C.
Dowling, R. J. Marie	Pa.	Kenny, Timothy N. Ryan	Md.
Dowling, Mahred	Mass.	Kenny, Raymond Harold	D.C.
Dowling, Robert Barth	Pa.	Kenny, John	D.C.
Dowling, Paul Weatherly	D.C.	Kenny, Robert Lee	
Dowling, Marvin Irving	D.C.	(With distinction)	
Dowling, Douglas James	Va.	Kenny, Martin	N.Y.
Dowling, John Robert	N.I.	Kenny, Henry Center	Conn.
Dowling, John Sae	Va.	Kenny, Mary Jane	D.C.
Dowling, Albert	D.C.	Kenny, Roger Leon	D.C.
Dowling, Robert	N.I.	Kenny, Edmund Benjamin	D.C.
Dowling, Melvin	Mass.	Kenny, John Percy	S.C.
Dowling, Martin	N.Y.	(With distinction)	
Dowling, Walter Carl	N.Y.	Kenny, Mary Francis	Ind.
Dowling, Thomas Cooper	Va.	Kenny, Paul J. Jr.	Md.
Dowling, Harold I.	Md.	(With distinction)	
Dowling, Nelson William	Md.	Kenny, Martin R. Evelyn	D.C.
Dowling, William O. Vetter, Jr.	D.C.	Kenny, Hugh Eugene	D.C.
Dowling, John Calvin	Pa.	Kenny, Martin Allen, Jr.	Va.
Dowling, Nancy Alice	D.C.	Kenny, Mary Evelyn	D.C.
(With distinction)		Kenny, Thomas Deane	W. Va.
Hall, Thomas David Lechore	Md.	Kenny, James William	D.C.
Hall, Thomas John Bryan	S.C.	Kenny, Robert Robert	N.C.
Hall, Robert Henry Jr.	N.Y.	Kenny, Charles Bryant III	D.C.
Hall, Thomas Smith	D.C.	Kenny, Thomas William, Jr.	Ga.
Hall, Martin Smith	D.C.	Kenny, William Francis	Ind.
Hall, John Smith	Pa.	Kenny, John Stephen, Jr.	Ark.
Hall, John Smith	Md.	Kenny, William Frederick	Pa.
Hall, John Smith	D.C.	Kenny, John	D.C.
Hall, John Smith	D.C.	Kenny, Albert Jay	D.C.
Hall, John Smith	D.C.	Kenny, William Eugene	D.C.
Hall, John Smith	D.C.	Kenny, William Alexander, Jr.	Tenn.
Hall, John Smith	D.C.	Kenny, George Franklin, Jr.	Va.
Hall, John Smith	D.C.	Kenny, George Harold, Jr.	D.C.
Hall, John Smith	D.C.	Kenny, John	Va.
Hall, John Smith	D.C.	Kenny, Thomas Orville M.	D.C.
Hall, John Smith	D.C.	Kenny, John Henry, Jr.	Va.
Hall, John Smith	D.C.	Kenny, Martin Robert	D.C.
Hall, John Smith	D.C.	Kenny, Mary Jane	Pa.
Hall, John Smith	D.C.	Kenny, Martin Thomas	N.I.
Hall, John Smith	D.C.	(With distinction)	
Hall, John Smith	D.C.	Kenny, Robert Frederick	Pa.
Hall, John Smith	D.C.	Kenny, John George	D.C.
Hall, John Smith	D.C.	Kenny, Robert Victor	Ohio
Hall, John Smith	D.C.	Kenny, John Lawrence	D.C.
Hall, John Smith	D.C.	Kenny, Thomas Lawrence	D.C.
Hall, John Smith	D.C.	Kenny, John Lawrence	Va.
Hall, John Smith	D.C.	Kenny, Daniel Joseph	Pa.
Hall, John Smith	D.C.	Kenny, Harvey David, Jr.	D.C.
Hall, John Smith	D.C.	(With distinction)	
Hall, John Smith	D.C.	Kenny, Matthew Joseph	Md.



Parisius, Paula Marie	D.C.	Smith, Chester Horace	Nev.
Paulson, Norman Clarence	Va.	Spencer, Arthur Fuller	Va.
Pavlat, Robert Kendall	Md.	Spencer, Robert Mitchell	Tenn.
Peters, Betty Joan	D.C.	Spitzbergen, James Clifford	D.C.
Peterson, Marshall Noel	Miss.	Stambaugh, Donald John	D.C.
Pittenger, Myrtae	Md.	Stamey, Harry Clay	Pa.
Pollack, Leonard	Pa.	Starns, Henry Carroll	Ky.
Pope, Patricia Evelyn	D.C.	Steele, Elroy Junior	Iowa
Poston, Raymond Lee, Jr.	Va.	Stens, Stanley	N.Y.
Pratt, Betty Anne	D.C.	Sterner, Paul Llewyn	D.C.
Prisaznick, Florence Jeanette	Va.	Stenly, Paul Jay	W.Va.
Ramsdell, Ruth Ann	Va.	Stone, James R.bert	D.C.
Rasm, Phyllis Moam	D.C.	Stovall, Dorothy Ruth	Ga.
Reagan, James Edwin	D.C.	Stueb, Samuel Stephen	D.C.
Reeves, Richard Lewis	Va.	Sullivan, Arthur Victor, Jr.	D.C.
Ridpath, Robert Vance	Ind.	Svedberg, Barbara Jean	Wash.
Ritterhouse, Edward Vernon	N.J.	(With distinction)	
Roberson, Elbert Belmont, Jr.	D.C.	Symmes, Courtland	N.C.
Rockwell, Marion Arden	Pa.	Taylor, Francis Gordon	Ga.
Rodger, James Edwin	Pa.	(With distinction)	
Rosenberg, David Arnold	Md.	Tennery, Billy Jack	Md.
Rosenblatt, Harry Myer	N.Y.	Tow, Charles Weaver, Jr.	N.C.
Rosenthal, Alan Henry	D.C.	Theobald, Frederick H.	Ky.
Ross, Joseph Hunter III	Md.	Tollerton, Evelyn Frances	Md.
Road, Henry	R.I.	Tramm, Frank Anthony	N.Y.
Ruck, James Clay	D.C.	Tuckman, Norman	Conn.
Ruth, Joseph Young	Pa.	Tully, Patricia Alice	D.C.
Sader, Hilford Edwin	Md.	Underwood, Harry John	Md.
Saker, Harold	Hawaii	Vandenberg, Paul George	Va.
Sanders, John Albert	Pa.	Vanden, Oliver Elyse	D.C.
Sargent, Solomon	N.Y.	Wade, Cecile Dorsey	Md.
Schaepp, Carl Bernard	N.Y.	Wade, James William	Tex.
Schaeffer, Eugene	Va.	Walters, Cecil Belle	Tex.
Schaefer, Herman David	N.Y.	Watts, Kenneth Woodward	D.C.
Schwartz, Olga Helen	Ill.	Wattson, Jane Frances	Md.
Schwartz, Ruse Rosenheck	Va.	Wadman, Charles Louis	D.C.
Seal, Bernard Rubin	D.C.	Wax, Earl Brooks	Ga.
Seawitz, Lawrence Emanuel	Mass.	Webster, John Tucker	Va.
Seft, Oscar Leo	Va.	Wenert, William Francis	Conn.
Short, James Joseph	N.J.	Whelton, Schuy Allen	D.C.
Shubin, Louis Samuel	Conn.	Widner, Mildred Leta	Ind.
Shumaker, William Robert	D.C.	Widner, Raymond Morgan	Va.
Shupe, Kenneth Walter	Va.	Yancy, George Ellis	Ohio
Simms, Shirley Hazen	D.C.	Zimmer, Patricia Ann	D.C.

## MAY 26, 1948

Adams, Mary Kathryn	D.C.	Barrett, Beverly Mae	D.C.
Alexoff, Thompson Daniel	Conn.	(With distinction)	
Allen, Fred Wright	Mass.	Bassett, Robert E.	Va.
Altman, David	Md.	Bates, Stephen S.	Pa.
Altshuler, Oscar	N.Y.	Bauer, Mary Graybill	Md.
Arms, Oscar Harold	Va.	Baile, Marcel	D.C.
Arns, Frank Ward, Jr.	Md.	Berger, Bernard Brian	Md.
Armstrong, David	D.C.	Berger, Kenneth Homer	Ohio
Arnold, Edward Kenneth	Pa.	Berg, Karl Louis	Ind.
Arnold, Aubrey Allen	Md.	Berke, Joseph Bernard	N.J.
Arthur, Lester Maxwell, Jr.	Va.	Bisler, Charles Mason	Va.
Aschmann, Katherine Jean	D.C.	Bird, James Frederick, Jr.	D.C.
Aspen, William Robert	Md.	Bischoff, John Maynard	N.Y.
Baker, James Clyde, Jr.	Ark.	Bishop, Iris Mildred	Miss.
Baker, Wilma Blanche	D.C.	Bischoff, Otto Edward	Mo.
Baker, Donald Lawrence	D.C.	Blissmore, George Jefferson, Jr.	Pa.
Balker, Cornelius Johannes	N.J.	Brown, William	N.Y.
Ball, Charles Emmet	D.C.	Brown, John Patrick	Pa.
Ball, Kenneth, Jr.	W.Va.	Brown, George Michael	Pa.
Baliga, Alexis Joseph	Pa.	Brown, Mildred Frances	Pa.
Bamber, Elizabeth Marshall	Md.	Brownman, Robert Henry	D.C.
Barnes, Joseph Louise	Va.	Brown, Patrick John	Pa.
Barnes, Scott Harlan	N.Y.	Brown, Ann Stowell	Pa.
Barnett, Charles Maxwell	Calif.	Brown, Jean	D.C.
		Bruce, Wilson Kress	Ind.



Bresler, Alexander	N.Y.	Davis, Thomas Walker	D.C.
Brown, Francis Gifford	N.Y.	Dawson, Margaret	Ind.
Broadbent, Frank Clifford	D.C.	Dein, Dorothy Louise	Va.
Brodsky, Herman	N.Y.	Dekaban, Abraham Joseph	D.C.
Bromet, Louis	N.Y.	(With distinction)	
Brown, Agnes Marie	Mich.	Del Grosso, Peter Albert	D.C.
Brown, Benjamin Franklin III	D.C.	Desset, Lester	D.C.
Brown, Lewis Donald	D.C.	Dennis, Christopher Bartram	D.C.
Brown, Martin	N.Y.	Dewitt, Charles Kenneth, Jr.	Ala.
Brown, Patsy Mae	D.C.	Diemer, Robert Arthur	D.C.
Brown, Richard Allen	D.C.	Dietz, Stanley Martin	N.Y.
Brown, Roy Carl	S.D.	Dineen, Margaret Catherine	Mass.
Byde, George A. Rea	M.I.	Dorham, Helen	N.Y.
Bucci, Donald Anthony	N.I.	Dorlan, Abraham	N.Y.
Burgardner, Dorothy Hunter	D.C.	Dunn, Clarence Harry	Pa.
Burke, John Grant	Va.	Dunham, Pasquale Anthony	Pa.
Burnett, Lloyd Calvin	Va.	Durr, Loris	D.C.
Burns, Robert Lee	Fla.	Durkin, Donald James	Va.
Burtows, Kenneth Wilson	D.C.	Dusenberry, Michael Hugh	W.Va.
Bushmeyer, Frederick Sherman, Jr.	D.C.	D. G. H. Albert Morris	D.C.
Bust, Jeremy Estell	Pa.	Dunn, Eugene Francis	S.D.
Bushman, William Pryor	Va.	Dutton, Alfred Marao	Mass.
Butter, Ralph Helale	D.C.	Dunsmuir, Henry Aime	N.H.
Cahan, Jules Isaac	D.C.	Eaton, Frances Ellen	D.C.
Cain, George Stephen	D.C.	Eastop, James Edward	Mont.
Callaway, Emily Annette	Va.	Edgeworth, Anibal	Colombia
Callaway, Joseph Easterling III	Va.	Edwards, Maurice Duane	Mo.
Campbell, Mildred Ann	D.C.	Edgerton, David	N.J.
Carlson, Howard Kenneth	Wis.	Edgerton, Mark, Jr.	N.Y.
Carlson, Harry Nelson	D.C.	Emerson, Charles William	La.
Carroll, Norman Sellman	Va.	Evans, Douglas Kibbey	Va.
Carter, Crawford	Ga.	Evans, Sally Ann	D.C.
Carter, Marilyn	Calif.	Everett, Franklin Milton	D.C.
Catali, Leonard	Mass.	Evanoff, Ler Elmer	Va.
Cash, James Barrett, Jr.	Ark.	Fain, Martin Robert	D.C.
Cerra, Arthur Joseph	N.Y.	Falcus, Gregory Joseph	N.Y.
Chapell, Elizabeth McGaw	D.C.	Fallen, Thomas Lee	Fla.
Chasak, Stanley	Mass.	Farnsworth, James Anthony	N.Y.
Chasas, Alexander	Pa.	Farrister, Annavee Beverly	D.C.
Clark, Allen C. Long	D.C.	Farnsworth, Donnie	R.I.
Clark, Lily R. Holt, Jr.	Md.	Fellows, William Albert	Mo.
Campson, Charles Ronald	Ill.	Felton, Joseph Stephen	N.Y.
Coker, Albert Abraham	D.C.	Fennell, Ardis Woodall	N.D.
Cohen, Jack	N.Y.	Fink, James	D.C.
Cohen, Morris	D.C.	Finkel, Donald Edward	D.C.
Cohen, Richard Edward	D.C.	Finkel, Joseph Peter	Conn.
Cohen, Sheldon Stanley	D.C.	Fingert, Jack Phillips	N.C.
Coller, Edwin	D.C.	Fink, Chester	Va.
Collier, William F. Leard	Wash.	Flax, Marion Audrey	N.Y.
Connell, John G. Loh, Jr.	Va.	Fletcher, Gordon Arthur	Vt.
Cooke, Edward Andrew	D.C.	Fletcher, Howard Lee	D.C.
Cole, Harriet Daves	N.C.	Floyd, Charles Howard	D.C.
Coper, Leonard Frederick	N.I.	(With distinction)	
Carson, Earl Jr.	Ohio	Foley, George Vincent	D.C.
Cox, Wallace Keith	Iowa	Foley, James Kevin	N.Y.
Craddock, William Wood	Md.	Forsyth, James Evans	Md.
Crookston, William James	Mass.	Fox, Margaret Helen	D.C.
Cruise, Paul James	Md.	Fisher, Joseph Dewey	D.C.
Cummings, Lilla Bert	D.C.	Frost, Thomas A. Philip	Mass.
Dalbium, Henry Monroe	N.Y.	Frost, Victor Seymour	D.C.
Dalbium, Thomas James	Va.	Frost, Gerald	D.C.
Dalbium, John	Wash.	Fry, Joseph William	Vt.
Dalzell, Stephen Albert	D.C.	Fry, Douglas Constance	Me.
D'Alezzo, Joseph Robert	R.I.	Fulmer, Robert Christian, Jr.	Md.
Dalberty, Conrad Jacques	Netherlands	Furman, Eugene Marvin	D.C.
Dalberty, Herbert Donald	D.C.	Furman, Paul Larry	D.C.
Davis, Clifford Jr.	Tenn.	Gallagher, Bernard Francis	Va.
Davis, David Stanley	Ohio	Gandy, James Leon	D.C.
(With distinction)		Good, Margaret Ruth	W.Va.
Davis, Gordon	Va.	Geller, Irving	N.I.
Davis, Mary	D.C.	Gelso, Samuel Theodore	N.Y.
Davis, Thomas M. Lellan, Jr.	D.C.	Gibbs, Robert Stewart	N.Y.
(With distinction)		Gillard, William Henry	D.C.

Gorman, Donald Lawrence	Mass.	Jackson, Mary Strull	Va.
Gilmartin, Francis Edward, Jr.	N.Y.	Jacobi, Warren Thompson	N.Y.
Ginsberg, William Kenneth	D.C.	Jacobsen, John Henry, Jr.	D.C.
Gittins, Thomas Morton, Jr.	Ma.	Jacobs, Anna	Id.
(With distinction)		Jacobs, Albin Joseph	D.C.
Glickman, Louis Harriet	N.I.	Jack, Vernon Elmer	Ind.
Glickman, Walter Sterling	D.C.	Jaffee, Albert Canine, Jr.	D.C.
Glover, Janet Maria	Va.	Jaffee, Arthur	Mass.
Glover, Donald Jackson	D.C.	Jensen, Martin Lane, Jr.	Iowa
Goldsberg, Lawrence	Conn.	Jervay, Mary Elizabeth	Va.
Goldsberg, Jack	D.C.	Jett, Clark	D.C.
Goldschmidt, Solomon Alcono	D.C.	Jett, Lambert Savel	D.C.
Gordon, James Kake	Va.	Johansen, Alfred Paul	Mass.
Gordon, Lester Howard	Mass.	Johansen, Henry Edwin	Pa.
Gotschall, Gode Parsons	Nebr.	Johansen, John Henry	D.C.
(With distinction)		Johansen, John Sterling	Va.
Gottsch, Marie Helene	D.C.	Johansen, Victor Herbert	D.C.
Graham, George Graustield, Jr.	D.C.	Johansen, Warren Lewis	D.C.
Gray, David William	Mass.	Johansen, David Jean	Va.
Gray, S. David	Va.	Johansen, Martin Kessler	D.C.
Groat, Mary Alice	D.C.	Johansen, Virginia Loring	D.C.
Greene, Gode Remington	Va.	Kadite, Max Seibert	N.Y.
Gelman, Robert John	N.Y.	Kahn, Catherine Louise	N.Y.
Gendler, Herbert	N.Y.	Kadner, John	Pa.
Genet, Ralph Edward	D.C.	Kahn, Arthur Martin	N.I.
Genet, Russell Carl	Va.	Kadish, Sidi	Iceland
Gerkins, Maxwell Kitchin	N.C.	Kadish, Gerald Jerome	N.Y.
Gerst, Walter George	Conn.	Kadish, Peter Spiros	D.C.
Hall, Allen	N.I.	Kay, Marvin Leonard	D.C.
Hall, Katherine Farragut	D.C.	Keen, Owen Allen	Va.
Hallman, Pauline Pearl	Va.	Keller, Gertrude Isabelle	Ohio
Hallman, Art Winfield, Jr.	Mass.	Keller, William Cedric	Pa.
Hart, Dale Wayne	Ill.	Kelley, James John Joseph	Va.
Harter, Edith Elizabeth	D.C.	Kendall, Arthur Wallace	N.I.
Harter, Lucille Stenger	Ind.	Kendall, Oliver	D.C.
Harris, Emmett Watkins	Va.	Kendall, Orrin Belvin	N.C.
Harris, Eric Klare II	D.C.	Kennel, Victor Mary	D.C.
Hartman, Lucy Patricia	N.M.	Kent, John Cecil	Pa.
Hartley, Beat Doris	D.C.	(With distinction)	
Hartman, Robert Lind	D.C.	Kerns, Pauline Jean	W.Va.
Hartman, Robert Warner	W.Va.	Kerns, Martin Joseph	D.C.
Hart, Vernon	D.C.	Kerns, Arthur Schiro	Calif.
Hatch, Rod Virginia	D.C.	Klipp, Victoria Marie	Va.
Hedrick, Betty Alice	Va.	Krippel, Howard Jerome	N.Y.
Heider, Margal Louis	Mass.	Kline, Joseph Samuel	D.C.
Hendy, John Lawton	Tex.	Kline, Robert M.	Ohio
Henry, Gregory Thomas	D.C.	Kline, Pearl	Pa.
Henry, Robert Lee	D.C.	(With distinction)	
Herrington, Peter Niven	Va.	Klitz, Betty Jean	D.C.
Hochman, Marshall	Mass.	Klitz, William	N.Y.
Hoswig, Anne Karen Hildegard	Va.	Klitz, Lisa Abram	Mid.
Hoss, Walter Kenneth	Pa.	Klitz, Miriam Feldman	Ohio
Hovett, Ellen Nancy	N.Y.	Klyach, Rose	Pa.
Hudault, Richard	D.C.	Kochman, Julius	N.Y.
Hill, Margaret Ann	D.C.	Koch, Peter James	Ohio
Hoke, Rosalee Gerda	Va.	Kochman, Gus	N.Y.
Holmes, Bernard Larry	Mid.	Kochman, Solomon	N.Y.
Holmes, Thomas Harry	D.C.	Kohn, Mark Joseph	D.C.
Holmes, Elmer Wilson	Va.	Kory, John	D.C.
Holmes, Irene Hevone	Czechoslovakia	Kubowitz, Shirley Pauline	Pa.
Holmes, Gustave Oliver	Pa.	Kubowitz, Louis Greta	Mid.
Holmes, Herbert Harold	D.C.	Kubowitz, Pauline Lucinda	D.C.
Holmes, Paul Frances	Va.	Kubowitz, David Haimonds	Mid.
Holmes, John Lehman	Va.	Kubowitz, Peter Andrew, Jr.	N.Y.
Holst, Carl Wilson, Jr.	Teen.	Kubowitz, Anne	D.C.
Holst, Donald Andrew	Va.	Kubowitz, Virginia James	Mass.
Holst, Mary Lee	Ma.	Kubowitz, Margaret Anne	Mid.
Holter, Samuel	N.Y.	Kubowitz, Vera Lee	D.C.
Holmberg, Helen	D.C.	Kubowitz, James Robert	Mid.
Holmberg, Stanley Lorraine	D.C.	Kubowitz, Norman Paul	Mass.
Holmberg, Robert Lee	D.C.	Kubowitz, Patricia Mary	Va.
Holm, Theodore	Pa.	Kubowitz, John David	Va.
Holm, Mary Jo	N.J.	Kubowitz, Eunice Cecil, Jr.	Va.

Lee, Thomas Wai Yuen	Hawaii	Nevaiser, Albert Edward	D.C.
Leidinger, Joan Mary	D.C.	Newcomb, Margaret Elaine	Md.
Leitch, Arminstead Claiborne	Va.	Newark, Roy Francis	N.J.
Leitch, Robert Dennis	Va.	Newman, William Webster	D.C.
Leitch, Eugene Anthony	Va.	Nichols, Warren James	D.C.
Levine, Haskell	D.C.	Noble, Stephen Allen	N.Y.
Levine, Grace Flax	N.Y.	Nollan, Bernice Katherine	Va.
Levy, Lewis Edward	N.Y.	Nolan, William Joseph, Jr.	Conn.
Lewis, John Watten	D.C.	Nordstrom, Neala Jan	Va.
Liberty, Cyril Jean	D.C.	Norris, Joseph Kaffler	D.C.
Lillis, Martin David	N.Y.	Oakes, Walter Foster, Jr.	Va.
Lillis, Charles Ernest	Ill.	O'Brien, Richard Gwynn	D.C.
(With distinction)		O'Connor, John Joseph	Mass.
Linden, George	N.Y.	O'Connor, Charles Frederick III	Va.
Linsell, Daniel William	D.C.	O'Connell, Mary Louise	D.C.
Little, Arthur Franklin	D.C.	O'Leary, John Francis	D.C.
Lohm, Thomas Alexander	Md.	O'Leary, Wallace Bryan	D.C.
Long, Charles William	Pa.	O'Leary, Francis Xavier	Pa.
Lorance, James Edward	Ill.	Olsen, Seymour Samuel	N.Y.
Lovewell, Suzette	D.C.	Olsen, Richard Lowell	Conn.
Luther, Elmore Eugene	Mo.	Ozawa, John Morgan	Md.
Lutz, Homer LeRoy, Jr.	N.Y.	O'Meara, William Raymond	D.C.
Lynch, James, Jr.	D.C.	Oparowski, Walter Emil	Mass.
Lynch, William Walker	Va.	Owen, George Morgan	Va.
MacKinnon, Joseph	Pa.	Palder, Edward Lawrence	D.C.
MacGowan, Woodford Cannon	D.C.	Pannill, William E.	D.C.
MacRae, Donald Shaw	D.C.	Pappalotis, Spero John	D.C.
MacLean, Patricia Lamine	Canada	Paternoster, Joseph Anthony	Pa.
MacLennan, William Everett	Mass.	Patten, Stanley Fletcher, Jr.	N.J.
MacLennan, Robert Andrew	Mich.	Paul, Charles Bennett III	D.C.
Maize, Betty Lou	Md.	Paulson, Eugene Bernard	Pa.
McAfee, Harry Lewis	Md.	Peel, Ella Louvenna	D.C.
McAfee, Louis Norman	Va.	Peterson, LeGrand Winfield III	D.C.
MacIntyre, Carl	N.Y.	Peterson, Frank Herbert	D.C.
MacIntyre, George Albert, Jr.	D.C.	Peskin, Sarah Ruth	Ill.
MacIntyre, Ralph Edward	Mass.	Peskin, Robert Eugene	D.C.
MacIntyre, Robert Henry	Pa.	Peterson, John Marie	D.C.
MacIntyre, Shirley Jean	D.C.	Peter, Charles Jay	D.C.
MacIntyre, Charles Donald	Tex.	Pine, Donald Kay	Va.
MacIntyre, Barbara	D.C.	Pinion, Eugene Otis	Va.
MacIntyre, Jack Chapman	Tex.	Pittman, Robert Junian	D.C.
MacIntyre, Joseph Alvin	Del.	Pocino, Vincent Angelo	N.J.
MacIntyre, George Dennis	N.Y.	Polovoy, Albert Bernard	Mo.
MacIntyre, Robert Beniger	D.C.	Popham, James Edward	Va.
MacIntyre, Ernest Richard	D.C.	Post, Rita Anne	Ind.
MacIntyre, John Badger	Conn.	Potter, Thomas Van	D.C.
MacIntyre, Alfred Jerome	Va.	Powell, John Frederic, Jr.	N.C.
MacIntyre, Matthew Bernard	Va.	Prentzel, Harold Thompson, Jr.	Pa.
MacIntyre, John Wallace	Md.	Proctor, Lucy Rebecca	Tex.
MacIntyre, Robert David	D.C.	Purcell, Patricia Eileen	Minn.
MacIntyre, Margaret Harrilyn	Tex.	Putterman, Felix Maurice	Va.
MacIntyre, Nadia Sybil	N.Y.	Quinnam, John Wilson	Maine
MacIntyre, Leon	N.Y.	Raden, Henry	D.C.
MacIntyre, Herbert Andrew	N.D.	Rader, Ross Frank	W.V.
MacIntyre, Richard Eugene	D.C.	Rader, Anne	Pa.
MacIntyre, Roy Hamilton	D.C.	Ray, Christopher James	D.C.
MacIntyre, Kathleen Jayne	D.C.	Ray, Laurence Victor, Jr.	Va.
MacIntyre, Neil	D.C.	Rayack, Elton	N.Y.
MacIntyre, Alfred Bruce	Va.	(With distinction)	
MacIntyre, Elizabeth	Mexico	Read, Mary Sue	Ill.
MacIntyre, Frank Daniel	N.J.	Reisch, James Reginald	N.Y.
MacIntyre, Douglas Hamilton, Jr.	Md.	Reitman, Seymour George	N.J.
MacIntyre, Carl Elmer, Jr.	Va.	Reisroth, Clarence Dewey, Jr.	Pa.
MacIntyre, James Peter	Conn.	Reynolds, Margaret Mary	Pa.
MacIntyre, Howard Irwin	N.Y.	Rhoads, Robert Jefferson	Ill.
MacIntyre, Sidney J.	N.Y.	Rice, Carol Lynn	D.C.
Mullins, Jessie Edith	Va.	Riggs, Annette Mosher	Fla.
Murphy, Robert Bernard	Wis.	Robbins, Walter Lewis	D.C.
Myerson, Jacob Myer	D.C.	Robinson, Earl Howard	D.C.
(With distinction)		Roessing, Marcia Grier	N.Y.
Nason, Mary-Louise Jones	D.C.	Rogers, William Gene	Iowa
Neidorf, Sol	D.C.	Rohrs, Beverly Ann	Md.
Nelson, Robert George	D.C.	Rook, Doris Mae	Md.



Rosenberg, Daniel	M. B.	Stallman, Edward Victor	D. C.
Rosset, Irvin David, Jr.	N. Va.	Stallman, Cyril Victor, Jr.	D. C.
Rosenberg, Robert Theodore	N. Va.	Stallman, George Edward	N. J.
Rosen, Anne Edward	W. Va.	Stallman, George	N. Y.
Rosen, David	ME.	Stallman, John Uman	D. C.
Rosen, Isaac Moore	ME.	Stallman, Robert	D. C.
Rosen, Joseph Raymond Arthur	N. J.	Stallman, George	D. C.
Rosen, Joseph Robert Ruth	D. C.	Stallman, William Nathan	D. C.
Rosen, Robert	D. C.	Stallman, Alexander Louis	D. C.
Rosen, David	N. Y.	Stallman, Edward William	D. C.
Rosen, James Milton	D. C.	Stallman, Robert	N. Va.
Rosen, Jacobbert Ross, Jr.	D. C.	Stallman, Bruce Douglas	Tenn.
Rosen, John	N. Va.	Stallman, Morris Douglas	N. Va.
Rosen, Elizabeth Margaret	D. C.	Stallman, Louis Louis	Md.
Rosen, Albert Meyer Wexley, Jr.	D. C.	Stallman, Paul W. Oswald	N. Va.
Sachs, John Douglas, Jr.	S. C.	Stallman, David Oswald	N. Va.
Sachs, Arnold Frank	D. C.	Stallman, Leonard	N. J.
Sachs, James Burton	Pa.	Stallman, (Webster)	
Sadler, Kenneth Edward	D. C.	Stallman, Robert	Md.
Sadler, Catherine Allen	N. Va.	Stallman, William Arnold	N. Va.
Sadler, Homer	D. C.	Stallman, John	D. C.
Sadler, William Carl	W. Va.	Stallman, Louis	N. Va.
Sadler, Howard	N. Y.	Stallman, Henry Stanley	U. Va.
Sadler, Elizabeth	D. C.	Stallman, Edward Stanley	D. C.
Sadler, Raymond Morris	N. Y.	Stallman, Louis Robert	D. C.
Sadler, Keith Lynn	D. C.	Stallman, John	R. I.
Sadler, Robert, Jr.	N. Y.	Stallman, Howard Robert	N. J.
Sadler, Lester Edward	N. J.	Stallman, George	D. C.
Sadler, Charles Edmund	Calif.	Stallman, Louis	D. C.
Sadler, Albert	D. C.	Stallman, Robert	D. C.
Sadler, Martin William	Id.	Stallman, Louis Josephine	D. C.
Sadler, Leonard Keith	Mo.	Stallman, Percy	N. Va.
Stallman, Leon	N. Y.	Stallman, Amy Thompson	D. C.
Stallman, Harry Alan	D. C.	Stallman, Louis	Pa.
Stallman, Paul	D. C.	Stallman, Sally Ann	D. C.
Stallman, Robert Stanley	D. C.	Stallman, John	D. C.
Stallman, Thomas	D. C.	Stallman, Charles F.	N. Y.
Stallman, Harry Hiram	D. C.	Stallman, John Samuel	Tenn.
Shirley, Fred William, Jr.	D. C.	Toro-Nazzario, Raphael Andres	D. C.
Shundich, Peter	Pa.	Toscano, Peter Ralph	N. Y.
Silbert, Gerald Melvin	Pa.	Totten, Isabel Ann	Pa.
Silbert, Leo	D. C.	Totten, Stanley Nelson	N. Va.
Silver, David Hyman	N. Y.	Tozier, Alvin Ozo	Md.
Simms, Barbara Anne	D. C.	Treuer, Robert William	N. Va.
Simon, Philip David	D. C.	Treuer, (Webster)	
Simon, Philip James	Iowa	Tucker, David Ray	Tenn.
Sing, Joseph Lee	D. C.	Tull, Robert Lewis	D. C.
Singer, Lawrence Robert	D. C.	Tulley, Gertrude Day	D. C.
Skelly, George Martin, Jr.	Cuba	Tulley, North Elizabeth	D. C.
Slavin, Joseph George	N. Y.	Uhl, Charles	Md.
Smith, Charles Henry, Jr.	N. Va.	Umhau, John Bernard, Jr.	D. C.
Smith, Emory Peter	D. C.	Unger, Irving	N. Y.
Smith, George Francis	D. C.	Valenzi, Louise Mary	N. Y.
Smith, Harold	N. Y.	Van Neste, Wilbur Lane	N. J.
Smith, Harry Wallace, Jr.	Md.	Van Slyke, James Kermit	D. C.
Smith, Margaret Anne	D. C.	van Uiter, LeGrand Gerard	U. Va.
Smith, Richard Cook	N. Va.	Vass, Richard	D. C.
Smith, Thomas Arthur II	Md.	Vickers, Ollin Dalton	Calif.
Smith, Wallace Morrell	N. Va.	Villalon, Edward Gonzales	D. C.
Smithwick, Edward Francis	N. Y.	Vincent, Warren Hubert	N. Y.
Snyder, Glenn Harold	D. C.	Wagshal, Jerome Stanley	W. Va.
Snyder, Sidney	Pa.	(Webster)	D. C.
Soffen, Fred	Calif.	Wallerstein, David Daniel	N. Y.
Solomon, Lewis Jay	N. Y.	Walsh, Josephine Ann	D. C.
Sowers, Robert Hauer	Md.	Ward, John Wesley	Tenn.
Spain, Clara	Del.	Ward, Mary Agnes	Md.
Spanzler, Leonard William	N. Va.	Warner, Ethel Louise	N. Va.
Spann, George Klepfer	D. C.	Warren, Howard Fanes	N. C.
Sprides, James Dennis	N. C.	Watkins, James Edward	D. C.
Spoonamore, Edward Bruce, Jr.	Kans.	Watkins, Peggie Jane	D. C.
Srnka, Sylvia Anita	Md.	Watts, Byron C.	Utah
Stahl, Francis Samuel	D. C.	Weathers, Milledge Wright	Ga.
Stallsmith, William Paul, Jr.	Md.	Weaver, Douglas Price	D. C.





Davis, Robert Meness, Jr.	Calif.	Massie, Elizabeth Faulkner	Va.
Dean, Elizabeth Nan	D.C.	McIntyre, Fred Louis	Nev.
Detlor, Robert	Wis.	McLean, Charles Graham	N.C.
Deskin, Leona	D.C.	Michael, Bernard	D.C.
Early, Annie Lola	D.C.	Miller, Bosilton Bainbridge	Ill.
Fahney, John William	D.C.	Mincosky, Mildred Leona	D.C.
Ferguson, Jean Agnes	D.C.	(With distinction)	
Fernal, Grace Cecelia	R.I.	Misch, Chilton Luther	Pa.
Fleming, Robert Moorehouse	Pa.	Neft, Jacqueline Henriette	D.C.
Fernal, Theodore	N.J.	Nye, Therese Gloria	D.C.
Gerstin, Marvin Joel	D.C.	O'Kelly, James Winn	Calif.
Glueck, Anitra Joyce	Mass.	Oswald, Jean Louise	D.C.
Goodman, Julian Byrn	D.C.	Powers, William Joseph	Va.
Graham, Emme Marguerite	Md.	Parrell, Mary Magdalen	Minn.
Gruet, Mary Harriet	D.C.	Parson, Richard Lock	Minn.
Healey, Alan John	D.C.	Reynolds, William Neville	Va.
Hendrix, Marian Knill	Ohio	Rosenstein, Bette Miriam	D.C.
Hogan, William Marston	D.C.	Ryan, Katherine Ann	Va.
Holey, Charlene	D.C.	Schmittman, Frederick Shade	D.C.
Jonson, Cecelia Clara	Va.	Smit, Helen Dolores	Ohio
Kaplan, Benjamin David	N.Y.	Silverman, Aaron	D.C.
Kaplan, Harry	Ill.	Sonnenmet, Hildegard	D.C.
(With distinction)		Smith, Harold Jerome	D.C.
Kilbuck, Richard Francis	N.Y.	Southard, Samuel, Jr.	N.C.
King, Donald Kyle	D.C.	Tatum, John Snyder	Va.
Kiser, Tharon Marie	Ky.	Tackenberg, William Richard	D.C.
Klein, Ender	D.C.	Talbot, Adrian Barclay, Jr.	D.C.
Knowles, Mary Frances	Ind.	Valent, Grace Josephine	D.C.
Kueller, Ralph Rudolph	Utah	Vanduit, William Lawrence, Jr.	W.Va.
Layhee, Harold Franklin	N.Y.	Vat-Stary, James Cornelius, Jr.	D.C.
Laxon, Ruth Lee	D.C.	Webb, Richard William	Conn.
Mans, Irene Sofia	N.M.	Wright, Joanne Louise	Md.
Mark, William John	D.C.		

## MAY 26, 1948

Albers, Patricia Marie Hanley	D.C.	Cassedy, Mary Greff	Md.
Alegria, Claribel	D.C.	Chase, George	Mass.
Antel, Barbara Jean	D.C.	Charlek, John Stephen	N.Y.
Antwarg, Alexander	D.C.	Clark, Judith Walker	D.C.
Ayer, Agnes	D.C.	(Special honors in English)	
Baldridge, Reid	Md.	Clark, Marguerite Ida	Ill.
Barnesley, Frances	D.C.	(With distinction)	
Barnesfeld, Betty Jane	Md.	Clark, Thomas McTyghe	Va.
Batts, Harry Bartton	Va.	Carswell, Mary Frances	Va.
Bink, Vera Audrey	N.Y.	Cole, Ralph John	Pa.
Bisnat, Francis Thomas	N.Y.	Conley, Eugene A.	N.Y.
Berry, Beverle Jean	Va.	(With distinction)	
Blair, Shirley Anne	Va.	Coxley, Harriett Davis	N.C.
(With distinction)		Casper, Charles David	D.C.
Bobb, Henrietta	Pa.	Craig, Lillian Ellsworth	D.C.
Bliss, Myrae	Md.	Craig, Dorothy VanRensselaer	D.C.
Blustein, Esther Iva	D.C.	Daley, Donald Leslie	N.J.
Boruck, Ruth	D.C.	Daniel, Virginia Mae	Va.
Bott, Pauline Claire	Ill.	Daniel, Mary Frances	N.C.
Brady, Margaret Jane Sandlin	Ky.	Darmstadter, Henry	D.C.
Brayer, Arthur	D.C.	(With distinction)	
Breiden, Bess Eloise	Tex.	De Nenge, Ruth Lorraine	D.C.
Brockman, Harry	N.Y.	Dessoz, Sally Clew	D.C.
Brockman, Myrtle	N.Y.	(With distinction)	
Brown, Barbara Marian	Md.	(Special honors in Philosophy)	
Brown, Daniel	N.J.	Dickey, Mary Graham	Md.
Brux, Anne Norton	Va.	Dorton, Eva Mae	N.C.
Bruce, Barbara Lou	Kans.	Dutton, Maryann Elizabeth	D.C.
Bushans, Barbara Carroll	Va.	Dwyer, Arthur Marie	Va.
Burke, Margaret Elizabeth	N.J.	Dwyer, Sylvia	N.Y.
Butler, Richard Dunbar	Md.	Dunsworth, Robert Collins	Va.
Byrd, Maria	Va.	Dunsmuir, Gabriel Rossman	Va.
Calloway, Patricia Ann	Wyo.	Dunsmuir, Theodore Franklin	N.Y.
Cameron, William Kimmel	Ohio	Exton, Patricia M. Clellan	D.C.
Carpenter, Henry Lewis	Md.	(Special honors in English)	
Casanova, Jean Orlina	D.C.	Faxon, Edmund Winston Jordan	D.C.

Fels, Gerald	N.Y.	Miller, Carolyn G. Rospice	D.C.
Feldman, James Hark, Jr.	Nehr	Miles, Maurice Myers	Va.
Feltus, Sandra Houser	Belam	Milner, Elizabeth Crawford	D.C.
Ferrist, Herbert Emerson	N.Y.	Mintzberg, Michael	N.Y.
(With distinction)		Mintz, Patricia	N.Y.
Fort, Susan Brown	D.C.	Mintzberg, Helen Lucile	Iowa
Franklin, Catherine Pearl	D.C.	Mintz, Susan J.	N.Y.
Gardner, Emily Jean	Va.	Mintzberg, Harry Jane	D.C.
Gardner, Nancy Lee	Me.	Mintzberg, Linda Ruth	N.Y.
Gelstein, Charles Francis	Pa.	Mintzberg, Lorraine Lucette	Va.
(With distinction)		Mintzberg, Barbara Marie	Me.
Green, Robert Arthur	Me.	Nancy, Elizabeth B.	Pa.
Graham, Stuart Ray	D.C.	Nathan, Susan Rose	W.Va.
Graham, Fred Henry	Va.	Nick, Katherine Ruth	Va.
Graham, Ronald	D.C.	Nathan, Gloria Tracyberry	Va.
Graham, Ronald Hunter	Pa.	(Special honors in English)	
Gray, Jerome Stanley	Va.	Nathan, Susan Ann	Me.
Hack, Barbara Louise	Me.	(With distinction)	
Haines, Lloyd Donald	Okla.	Nathan, Mary Louise	Me.
Hamer, Paul Elin	Va.	Nathan, Mary Anne	D.C.
Harris, Dorothy	Ill.	(With distinction)	
Herrick, Doris Casper	Me.	O'Connor, Rose Wilma	D.C.
Hill, Doris Marie	D.C.	O'Hara, Joseph Patrick, Jr.	Me.
Holmes, Audrey Scott	Tex.	Oppert, Katherine Margaret	D.C.
Howard, Hope Myrtle	D.C.	Oppert, Thomas Bates	Conn.
Howe, Claire Josephine	N.Y.	Platt, John Miller	Conn.
Howe, Mary	Pa.	(Special honors in Psychology)	
Hudson, Evelyn Jeanne Blazer	D.C.	Pratt, Patricia Jean	D.C.
Hudson, Howard Hamilton, Jr.	D.C.	Rabin, Susan Guntar	Me.
Hudson, Peter Herbert	D.C.	Rabin, Susan Carl	D.C.
Hunter, Richard Wayne	Iowa	Rapp, Charles H.	Pa.
Hunter, Collin Bryant, Jr.	D.C.	Rapp, Suzanne Virginia	D.C.
Kane, Percy Harry	Mass.	Rapp, Ray Edward, Jr.	D.C.
Kane, Donald Ellsworth	Me.	Rapp, Ann Harmon	Va.
Kane, Paula Evelyn	D.C.	Rapp, Elizabeth	Tex.
Kane, Cassie Stuart	Kan.	Rapp, Lynn Louise	D.C.
Kane, Pauline Jean	W.Va.	Rapp, Howard Louis	Va.
Kane, Neil Arlie	Ohio	Shank, Joe Catherine	Me.
Kane, Robert William	N.Y.	Shank, Joseph George	Me.
Kane, Robert Douglas, Jr.	Va.	Shank, Joseph	D.C.
Kane, Linda Phoebe	Pa.	Shank, Joseph	Va.
Kane, Virginia Anne	D.C.	(With distinction—Special honors in English)	
Kane, Phoebe	N.Y.	Shank, Joseph	D.C.
Kane, Evelyn Rose	Me.	Shank, George Charles, Jr.	W.Va.
Kane, Arthur Lawrence	N.D.	Shank, Elizabeth	D.C.
Kane, Dorothy Matelin	Kan.	Shank, Margaret Brockhoff	N.Y.
Kane, Max	N.Y.	Shank, David M.	N.Y.
Kane, Amanda Claborn	Va.	Shank, David	D.C.
Kane, David Ray	D.C.	Shank, Harold	D.C.
Kane, Nancy Jane	D.C.	(With distinction)	
Kane, Nancy Lee	Va.	Shank, Jackson Wray	Va.
Kane, Mary Ellen	D.C.	Shank, Joseph Marjorie	Calif.
Kane, Nancy B.	D.C.	Shank, Robert James III	Va.
Kane, Louis Roxham	Calif.	Shank, Susan R. Lind	Va.
Kane, Donald	N.Y.	Shank, Susan	Me.
Kane, Anthony J.	N.Y.	(Special honors in English)	
Martin, Albert	Ark.	Shank, Thomas Wray	D.C.
(With distinction)		Shank, Thomas Wray	D.C.
Martin, Lillian Catherine	Va.	Shank, Thomas Wray	D.C.
Martin, Anthony Francis	Pa.	(With distinction)	
Martin, Marjorie Mapes	S.D.	Shank, Thomas Wray	D.C.
Martin, David R. Rander	Tex.	Shank, Robert James	Va.
Martin, Thomas Ernest, Jr.	D.C.	Shank, Patricia Mary Therese	D.C.
Martin, Susan Mettrel	D.C.	Shank, Joseph	Calif.
McBride, Robert James, Jr.	Va.	Shank, Harry F. Jr.	How.
McBride, Dorothy Patricia	D.C.	Shank, Margaret Kate	D.C.
McBride, Anne Kelling	N.Y.	Shank, Susan Lind	Pa.
McNeil, Neil V. De	Me.	Shank, Mary Wayne	Va.
(With distinction)		Shank, John Mary	Va.
McNeil, Joseph Russell	D.C.	Shank, Andrew Francis	Me.
McNeil, John	Calif.	Shank, Joseph I. De	Iowa
McNeil, Evelyn Jane	D.C.	Shank, Anne Francis	D.C.
Messick, Jean Wadsworth	D.C.	Shank, Charles Eby	D.C.
		Shank, Leonard Adolph	N.Y.



Tully, Patricia Anne	D.C.	Williams, Polly Teed	D.C.
Vinca, Carolyn	Conn.	Wineland, Robert Kenneth	D.C.
Voelpel, Jack Clare	Ill.	Wooman, Marilyn June	D.C.
Wadden, Edwina Pou	D.C.	(With distinction)	
Wales, Marjorie Sue	Va.	Wood, Robert Ambrose	D.C.
Warfield, Richard Myers	Va.	Woodward, Lawrence Godfrey	D.C.
Warren, Philip, Jr.	Va.	Woodard, Lulu Freer	D.C.
Weethee, Betty Eileen	Va.	Young, Robert	D.C.
Weisskopf, Vera Jordan	D.C.		
(With distinction)			

## BACHELOR OF SCIENCE

## NOVEMBER 11, 1947

Kauffman, John William	D.C.	Spaulding, Wallace Paul	Wis.
Spar, Irving Leo	D.C.	Stiller, Bertram	Md.

## FEBRUARY 23, 1948

Asp, Nogi Arthur	Wash.	Kallman, Beatrice	N.Y.
Bass, Mauricio Juan	Panama	Lee, Joseph Fitzhugh	Va.
Canalis, Nicholas Mathew	D.C.	Sullivan, Eugene Francis	Nebr.
Davison, Clarke	D.C.	Yalom, Isador David	D.C.
(With distinction)			

## MAY 26, 1948

Beck, John Edward	Iowa	Mayer, Sadiey Ira	N.Y.
Beland, Dorothy Louise	D.C.	McLaughlin, Donald Keith	Mo.
Benson, Mary Louise	Va.	McMullen, Jack Robert	Va.
Benger, Suzanne Harding	N.Y.	Nameroff, Isadore	Pa.
Cammer, Margaret Ann	Va.	Paver, Julius Samuel	D.C.
Darg, Charles Patrick	D.C.	Rahb, Marjorie Elizabeth	D.C.
Dudley, Robert Eugene	W.Va.	Rapp, Raymond Edward, Jr.	D.C.
Elvase, Susan Ann	Va.	Ross, Helen Elizabeth	D.C.
Evans, Richard Judd	D.C.	Shapiro, Herbert Irving	D.C.
Finkelstein, Lawrence	D.C.	Shvinnatus, Pauline Zoe	Pa.
Freeman, Marion Virginia	Del.	Snider, Leonard Alfred	Va.
Gimbel, Stanley	D.C.	Sullivan, Robert Francis	D.C.
(With distinction)		Thomas, William Nelson	Ky.
Gomer, Susan Camelia	D.C.	Thomas, Paul Augustus, Jr.	Pa.
Green, Leonard	D.C.	(Special Projects in Chemistry)	
Harkness, William Dalzell	Va.	Tugendhaft, Robert Irwin	N.Y.
Hewson, Daniel David	Ohio	Venezky, David Lester	D.C.
Kerber, John Herbert	D.C.	Weise, Allen Gardner	D.C.
Kessler, Virginia Hope	D.C.	(With distinction)	
Krepper, Francis Carlyle	Md.	Wells, Edmund John, Jr.	D.C.
Larkin, Louis C., Jr.	Miss.	West, Marc Lee	D.C.
Lexton, Michel Harriet	Conn.	Williams, Mabelle	Md.
Lott, George Agnew	D.C.		

## MASTER OF ARTS

## NOVEMBER 11, 1947

Beneman, Charles Henry	D.C.	Kean, John Harper	D.C.
A.B. 1944, The George Washington University		A.B. 1944, The George Washington University	
Berlow, Nathan	N.Y.	Long, William Francis Edward II	D.C.
B.S. 1946, Brooklyn College		A.B. 1946, The George Washington University	
Henry, Jack Wilkeson, Jr.	D.C.	Margolin, Joseph Bernard	N.Y.
A.B. 1944, The George Washington University		A.B. 1942, Brooklyn College	
Judson, Abe James	N.Y.	Nichols, Evelyn Annette	D.C.
A.B. 1947, The George Washington University		A.B. 1942, The George Washington University	



Pratt, Stanford Chadwick A.B. 1938, University of Maryland	D.C.	Strapp, Hans Herman A.B. 1945, The George Washington University	D.C.
Short, Morris Robert A.B. 1937, The George Washington University	D.C.	Thomas, Bert A.B. 1937, The George Washington University	Mich.

## FEBRUARY 23, 1948

Eastwick, Dudley Chase A.B. 1937, Andover College	Va.	Robinson, Richard McCaffery A.B. 1941, College of Mines and Metallurgy, El Paso	Tex.
McFeaters, Marvin Clyde A.B. 1943, The George Washington University	Va.	Siskind, David I. B.S. 1948, College of the City of New York	N.Y.
Mead, Robert Osborn A.B. 1947, The George Washington University	D.C.	Sorrows, Howard Earle A.B. 1946, Boston University	Tex.
Miller, Feha Mary A.B. 1940, The George Washington University	D.C.	Synanes, Harrison Matthews, Jr. A.B. 1942, University of North Carolina	N.C.
Richardson, Mabel Campbell A.B. 1942, Bryn Mawr College	Mass.	Toporek, Milton A.B. 1940, Brooklyn College	Md.
		Zlotnick, Jack B.S. 1940, New York University	N.Y.

## MAY 26, 1948

Bers, Melvin K. A.B. 1943, The George Washington University	D.C.	Hubbart, Dwight Lowell A.B. 1945, San Jose State College A.B. 1947, The George Washington University	D.C.
Blum, Joseph B.S. 1944, College of the City of New York	Va.	Labkowski, Rose A.M. 1946, University of Warsaw	Poland
Bohlin, Elizabeth Rowe A.B. 1942, Southern Methodist University	Tex.	James, Ada Florence A.B. 1941, The George Washington University	D.C.
Bortwick, Howard Hall A.B. 1947, The George Washington University	Md.	Potter, Gordon Vanderbilt A.B. 1941, The George Washington University	Va.
Boyd, Foster A.B. 1942, University of Maryland	Md.	Proschan, Frank B.S. 1941, College of the City of New York	N.Y.
Clark, Helen A.B. 1945, Duke University	Ga.	Ronningen, Otto Vik A.B. 1946, Saint Olaf College	Iowa
Cokerias, Nicholas Trepham A.B. 1941, The George Washington University	D.C.	Schwaner, Zaira Ernestine A.B. 1946, The George Washington University	D.C.
Dunham, Elizabeth Graham A.B. 1945, The George Washington University	Va.	Smith, Homer Forest A.B. 1947, The George Washington University	Pa.
Goldberg, Stanley A.B. 1947, The George Washington University	D.C.	Snyder, Dorothy Frances A.B. 1944, American University	D.C.
Hernández, Mary Angela Stryers A.B. 1940, Salem College	N.C.	Valentine, Alberta Enderle A.B. 1945, The George Washington University	D.C.

## MASTER OF SCIENCE

## NOVEMBER 11, 1947

Deutsch, Ralph B.S. 1941, University of Michigan	N.Y.	Raymond, Mary Jane B.S. 1945, College of William and Mary	D.C.
Pincus, Irving B.S. 1948, College of the City of New York	N.Y.		

## FEBRUARY 23, 1948

Comalada, Gloria Marie	Puerto Rico	May, Irving	N.Y.
B.S. 1945, Mary Washington College		B.S. 1938, College of the City of New York	
Futrevsky, Charles	D.C.	Pond, Hartley Linwood	Maine
B.S. 1947, The George Washington University		B.S.E. 1942, University of Michigan	
Hosien, Benjamin Franklin	Va.	Schulkin, Morris	N.Y.
B.S. 1944, The George Washington University		A.B. 1939, Brooklyn College	
		Washington, Dorothy Anne	D.C.
		B.S. 1946, The George Washington University	

## MAY 26, 1948

Davis, Paul Lee	D.C.	Matthews, Joseph Brown, Jr.	N.J.
B.S. 1947, The George Washington University		B.S. in Eng. 1939, Lehigh University	
Gimble, Abraham Isaac	D.C.	Rice, Eugene Worthington	W.Va.
B.S. 1945, The George Washington University		B.S. 1942, West Virginia University	
Grace, John Lamar	Ala.	Stedman, Richard Guy	D.C.
B.S. 1938, Howard College		B.S. 1947, The George Washington University	
Harrison, Joseph Owens, Jr.	D.C.	Wallis, Richard Fisher	D.C.
B.S. 1945, The George Washington University		B.S. 1945, The George Washington University	

## DIVISION OF UNIVERSITY STUDENTS

## BACHELOR OF SCIENCE IN SECRETARIAL ADMINISTRATION

## NOVEMBER 11, 1947

Dedi, Virginia Turner Va.

## FEBRUARY 23, 1948

Becker, Florence Pearl Kans.

## MAY 26, 1948

Hoskinson, Lura Dean Ohio Wilkes, Caroline Moore D.C.  
Meadows, Mary Exie Ala.

## NAVY CERTIFICATE

## MAY 24, 1948

Agur, Peter Van Allen	Va.	Cooke, Emmett Marion, Jr.	D.C.
Anderson, Paul Edward	D.C.	Denman, Maurice Franklin	Va.
Andrews, Bernard Augustus	D.C.	Dorvaly, Gerald L.	D.C.
Andrews, Maria Joseph	D.C.	Dumas, George Everett	D.C.
Asbury, A. B., Jr.	D.C.	Dumas, Thomas Nathan	D.C.
Attala, Lawrence Franklin	D.C.	Dumas, Marvin Hughes	D.C.
Baker, Herman Hayward	D.C.	Flair, Joe Harry	D.C.
Baker, Stephen S.	D.C.	Fisher, Forrest Rudwell	D.C.
Bass, George Frederick	D.C.	Gardner, Paul Martin	D.C.
Bentley, Luther Callaway	Md.	Gardner, Stephen Edward	D.C.
Berg, Frederick Eugene	D.C.	Gardner, Robert Merrill	D.C.
Bilal, Hassan Robert Melvin	Va.	Harg, Frank Wade	D.C.
Bond, David Lee, Jr.	D.C.	Henderson, John Detmer William, Jr.	D.C.
Burnett, Robert Maurice	D.C.	Idolias, Edward	D.C.
Candler, Lyle Nelson	D.C.	Keller, Robert Gail	D.C.
Carroll, William	D.C.	King, John Warburton	D.C.
Chapman, Lyle Edwin	Va.	Koske, Frank Martin	D.C.
Christen, John Frances	D.C.	Kruekel, Edwin R.	D.C.

Kuntz, Karl William	D.C.	Ross, Jack Wylie	D.C.
Ley, Gerald Martin	D.C.	Schaeffer, George Alden	Va.
Marston, Walter	D.C.	Schwartz, William Wood	D.C.
McClintock, Michael	D.C.	Shields, Philip Nelson	D.C.
McKee, David Alfred	D.C.	Singer, Louis David	D.C.
Meyer, Joseph John	Md.	Spencer, Paul Hartford	Va.
Moore, Jack L.	D.C.	Spencer, Paul Eric	D.C.
Newman, Raymond Carlyle	D.C.	Tompson, Lee Roy	D.C.
Newman, Lewis	D.C.	Tunkus, Lewis A.	D.C.
Overmeyer, John C.	D.C.	Tyler, Henry Florence	D.C.
Page, Robert Wabur	D.C.	Udell, John Franklin	D.C.
Peterson, Harry Edwin	D.C.	Upjohn, Giles Crawford	D.C.
Pierce, Robert Lowry	Va.	Voss, Harold Emanuel	Va.
Polack, Francis Thomas	D.C.	Wagner, Harry Madison	Va.
Powell, Raymond H. J.	D.C.	Whelan, George Fred	D.C.
Randolph, Guy Dawson	D.C.	Williams, D. Hunt	D.C.
Ross, Clifford T.	D.C.	Winkel, Robert Paul	Va.
Rodgers, Robert Reese	D.C.		

THE SCHOOL OF MEDICINE

DOCTOR OF MEDICINE

MAY 26, 1948

Ackerman, Joseph Laurence	Del.	Farbes, Peter Roy	Calif.
Archer, Benjamin Lester	Md.	A.B. 1945, The George Washington University	
Arnold, McAlpin Hill	Ga.	Glew, Donald Henry, Jr.	D.C.
A.B. 1945, The George Washington University		B.S. 1945, Yale University	Va.
Ballard, Edwin Robert, Jr.	Wash.	Glover, Sarah Elizabeth	Ohio
A.B. 1943, Whitman College		Gould, Frederick Dale	
Bard, Raymond Isaac	D.C.	A.B. 1944, Otterbein College	D.C.
A.B. 1945, The George Washington University		Halliday, William Ross, Jr.	
Belton, Robert Reid	Oreg.	A.B. 1946, Sweetbriar College	Va.
A.B. 1945, Willamette University		Hartwell, Ernest Gordon	
Brady, Luther Weldon, Jr.	Md.	A.B. 1946, The George Washington University	
A.B. 1946, The George Washington University		Harrison, Bernard Arnold	D.C.
Brookbank, Wells Evans	Utah	Holman, Richard W. 2d	N.J.
Brookbank, Wallace Reed	Utah	A.B. 1947, August College	Calif.
B.S. 1944, Brigham Young University		Holman, James Kinner, Jr.	Va.
Brooker, Arthur Stanley	N.J.	Jacobsen, Marshall H.	
Connelly, Charles John	Pa.	A.B. 1945, The George Washington University	
Cook, Homer Howe	Utah	Jerkins, Thomas Rodgers, Jr.	Md.
B.S. 1943, Brigham Young University		B.S. 1944, Franklin and Marshall College	
Cook, Charles Battie	Va.	Kennedy, John M. Rue, Jr.	Oreg.
B.S. 1946, Hampton-Sidney College		A.B. 1945, Willamette University	
Cosswell, Walter Franklin, Jr.	Miss.	Koster, Beryl Carolyn	D.C.
B.S. 1945, University of Mississippi		Kramer, Harry Ivy	Va.
Cottina, Joseph Charles	Conn.	Kendall, Howard Webster	Ariz.
A.B. 1944, Catholic University of America		Kendall, Joseph Thomas	Wash.
Dones, Newel George, Jr.	Utah	B.S. 1945, Willamette University	
Dwyer, Gordon Walford, Jr.	Md.	Kramer, William Jerome, Jr.	Fla.
A.B. 1946, Dartmouth College		B.S. 1947, University of Florida	
Dwyer, Richard Francis	N.Y.	Laughlin, Robert Doster	Calif.
Dwyer, Patrick Connor, Jr.	Calif.	Leaman, Thomas Leal	Pa.
Dwyer, Thomas Edward	Calif.	Lee, Robert Yuen Song	Hawai
A.B. 1943, Stanford University		A.B. 1944, Cornell University	
Eddy, Joseph Howard, Jr.	Va.	Lucas, Jean Eugene	Miss.
Elliott, Carl Louis	Calif.	A.B. 1944, B.S. 1945, University of Mississippi	
A.B. 1946, Stanford University		Lundy, LeRoy Fred	Wash.
Fahren, Claude Gordon	Wash.	B.S. 1945, University of Washington	
Fair, Victor Henry	D.C.	Marate, Matthew Joseph	N.J.
Evans, Charles Dudley, Jr.	W.Va.	(With distinction)	
B.S. 1945, Mount Union College		A.B. 1945, Columbia University	
Fornax, Thomas Patrick	D.C.		
A.B. 1945, The George Washington University			



M. F. M. Cecil Flannery, Jr. A.B. 1943, The George Washington University	D.C.	St. John, Nicholas Eugene Ph.D. 1941, Yale University	Conn.
Miles, Philip Ramlin M.A. 1943, Nelson, Jr. (With distinction)	Puerto Rico	Schultz, Martin, Louis F. B.S. 1943, University of Puerto Rico	Puerto Rico
Nelson, Bartle A.B. 1943, The George Washington University	D.C.	Soyster, Eliza Shumaker A.B. 1944, Smith College	D.C.
Norfolk, Robert Butrick Outrow, Bernard Howard (With distinction)	N.Y.	Soyster, Peter Speaker, Richard B.	Calif.
A.B. 1944, Miami University Ph.D. 1944, College of William and Mary	Md.	A.B. 1945, The George Washington University	D.C.
Plunkett, Edmond Robert B.S. 1944, College of William and Mary	D.C.	Taylor, Clayton B. Thompson, James	Calif.
Post, Lawrence A. B.S. 1945, University of Wisconsin	W.	Thompson, James Zurich, Switzerland	Del.
Prichard, John Elmer Quigley, Thomas Albert, Jr. A.B. 1943, University of Mississippi	D.C.	A.B. 1947, Lafayette College	Utah
Rohn, Robert A.B. 1945, Fresno State College	Miss.	Thomson, Talmage Maiben A.B. 1942, Brigham Young University	Utah
Rose, Harold DeFrehn B.S. 1946, University of South Dakota	Calif.	Throckmorton, Neville Inskeep, Jr. Warner, Glenn Allyn	Calif.
	Minn.	Waxberg, Joseph David Weber, Charles John, Jr.	Wash.
		Whitmore, Robert Ellwood Whitmore, Robert Ellwood, Jr.	N.Y.
			Ga.
			Pa.
			Calif.

## THE LAW SCHOOL

## BACHELOR OF LAWS

NOVEMBER 11, 1947

Ashon, Randolph Alexander A.B. 1946, The George Washington University	Miss.	Jongbloet, Louis A.B. 1942, Villanova College	D.C.
Bilgley, Joseph Addison, Jr. A.B. 1947, Washington and Lee University	Va.	Klass, Felix B.Chem.E. 1948, College of the City of New York	N.Y.
Brent, John Wright A.B. 1943, College University of America	D.C.	Kline, William Howard John B.S. in Chem. Eng. 1948, Pennsylvania State College	Pa.
Coffey, Charles Shelby, Jr. A.B. 1947, The George Washington University	Tenn.	Kuske, Esther Juanita B.S. 1922, Northwestern University	D.C.
Cole, Joseph Robert Casper, Wendell William Criston, Henry Wabern	Conn.	Loveless, Ernest Alvin, Jr. A.B. 1943, University of Maryland	Md.
A.B. 1943, University of Richmond	Va.	MacMaster, Andrew James B.B.A. 1943, Southern Methodist University	Tex.
Dudley, Samuel Charles (With distinction) B.S. 1926, Washington College	Va.	McClenahan, Donald Johnston A.B. 1938, College of Idaho	Idaho
B.S. 1928, Johns Hopkins University		McClintock, Forest Lionel McKey, Richard Kendall	M.
Edgerton, John Donald (With distinction)	D.C.	New, Justin Derieux New, Ricev Sylvester, Jr.	Utah
Ellis, John Fletcher A.B. 1947, The George Washington University	D.C.	Nolan, Ben Paul A.B. 1946, The George Washington University	Ga.
Gottlieb, Elvan Boris Gutherson, Raymond Paul Griff, John Roscoe Tupper	Utah	O'Herin, Edward Francis A.B. 1942, University of Missouri	Va.
A.B. 1942, Bryn Mawr College	D.C.	Orndoff, Mary Ann McCann A.B. 1942, The George Washington University	Md.
Harrington, Joseph Michael A.B. 1941, University of Iowa	N.Y.	Rhoads, Lee McHenry A.B. 1941, The George Washington University	Va.
Hoffmann, Olga Hasel	Iowa	Robinson, Ruth Adell Smith	Idaho
	D.C.		



Russell, Stuart Hamilton	Okla.	St. S. Samuel Hamilton, Jr.	S.C.
A.B. 1941, The George Washington University		A.B. 1926, The Citadel	
Schwartz, Louis	D.C.	Stewart, Frank Hunter	Md.
A.B. 1939, Brooklyn College		A.B. 1942, The George Washington University	
Stanton, Mary Catherine Shumate	D.C.	Vinograd, Arthur	N.Y.
A.B. 1943, Trinity College		B.S. 1935, M.F. 1936, College of the City of New York	

## FEBRUARY 23, 1948

Beckerley, William Henry	Mich.	Page, Helen, Bell	D.C.
Bel, Iva Yvonne	Fla.	A.B. 1927, The George Washington University	
A.B. 1946, Florida State College for Women		Pringle, Philip Anthony	Conn.
Bradley, Isaac Curtis	Va.	Ramus, William	N.I.
Cabot, Donald Jr.	Pa.	A.B. 1942, Rutgers University	
A.B. 1942, University of Pittsburgh		A.M. 1944, Columbia University	
Calk, William McCuen	Wa.	Reno, Raymond Arthur	D.C.
Cover, Ralph Emerson	D.C.	A.B. 1947, The George Washington University	
A.B. 1941, University of Maryland		Roberts, Anne Leonard Jr.	N.J.
Dickens, R. Lee Pine	Md.	A.B. 1941, College of William and Mary	
Dolan, Rosamund Womers	D.C.	Roberts, Charles Clay, Jr.	Okla.
A.B. 1943, University of Virginia		A.B. 1944, University of Oklahoma	
Good, Theodore Jr.	Ky.	Roberts, Ronald Mitchell	Md.
Greenland, George Albert	Idaho	Rosenberg, Samuel David	D.C.
A.B. 1948, College of Idaho		A.B. 1947, The George Washington University	
Gilbert, Lyle Howard	Ill.	Stewart, Leslie Harrison	Utah
Harris, Webb Clark III	Okla.	B.S. 1944, United States Naval Academy	
A.B. 1942, Yale University		M.B.A. 1944, Harvard University	
Harrison, Andrew Frank Jr.	D.C.	Stevens, John Thomas Jr.	N.Y.
B.S. 1945, Massachusetts Institute of Technology		A.B. 1941, Hamilton College	
Irwin, Paul A.	D.C.	Thompson, Betty Ann	Va.
Kemp, Sally Randolph	D.C.	A.B. 1946, The George Washington University	
E.D. 1947, Cornell University		Waller, Henry	N.Y.
Lambert, George Robert	D.C.	A.B. 1941, College of William and Mary	
Nixon, Elmer Floyd Clyde	Mo.		
A.B. 1941, Central College			
Quincy, Roscoe B. Kerckhoff	Md.		
(With distinction)			
A.B. 1939, Harvard University			
O'Leary, William Gray	Mo.		
B.S. & L.L.B. 1941, Southwest Missouri State Teachers College			

## MAY 26, 1948

Ablert, Robert Sutton	Ohio	Brown, Samuel Antonio	Pa.
A.B. 1944, Kent State University		B.S. 1941, Pennsylvania State Teachers College, Indiana	
Allen, Charles Raleigh Jr.	D.C.	Calmar, William David	D.C.
B.S. 1944, Pennsylvania State College		A.B. 1944, The George Washington University	
Baker, Dorothea Anna	Mass.	Carpenter, Anthony Dominic	Ohio
A.B. 1947, The George Washington University		(With distinction)	
Barnes, Russell Howard	D.C.	Cole, Wayne Stevenson	Md.
Barnes, Herbert Clark	Utah	M.F. 1942, Stevens Institute of Technology	
Berry, Benjamin Franklin	Wash.	Coleman, Frederick William III	D.C.
A.B. 1941, University of Washington		B.S. 1943, United States Military Academy	
Bisell, Robert Gordon	N.Y.	Collier, Charles Ellsworth	Minn.
B.S. 1948, United States Naval Academy		A.B. 1947, The George Washington University	
Blackburn, F. B.	Ark.	Cowle, James Joseph	Mont.
A.B. 1935, John Brown University		Dawson, Robert Ralph	N.Y.
Blanch, Hazel Ruth	Pa.	Dean, John Joseph	
Booth, Eugene	Ark.	A.B. 1941, The George Washington University	
Boyd, Lewis Edward	N.C.		
Brack, John Ray	Okla.		
A.B. 1942, The George Washington University			

Denny, Howard Martin	Md.	Pugh, Douglas Haig	Ariz.
A.B. 1943, Ohio Wesleyan University		B.S. 1938, United States Naval Academy	
Dorsey, Benjamin Henry, Jr.	D.C.	Qualls, Guy Logan	D.C.
B.S. in Eng. 1945, University of Pennsylvania		B.S. 1941, University of Georgia	
Edmondson, Paul Clair	Wash.	Rees, Elias Davis	Utah
Fierst, Edith Udell	N.Y.	Reidy, John Joseph, Jr.	Mass.
A.B. 1945, Barnard College		A.B. 1938, Harvard University	
Frazee, Murray Bennett, Jr.	Pa.	Reinecker, Howard Keith	D.C.
B.S. 1929, United States Naval Academy		Reynolds, Robert Theodore	Tex.
Garrity, Patricia Cummings	D.C.	Ritchie, John Milton	D.C.
A.B. 1940, College of New Rochelle		B.S. 1931, Temple University	
George, George Ezekiel	Ohio	Robinson, Hugh Marston	Pa.
A.B. 1943, Harvard University		(With distinction.)	
Gill, Murray Myron	N.Y.	B.S. 1938, United States Naval Academy	
A.B. 1940, Brooklyn College		Rothe, Bertha Margarethe	D.C.
Hall, Mary Martin	S.D.	A.B. 1934, A.M. 1935, B.S. in L.S. 1940, Syracuse University	
A.B. 1938, University of South Dakota		Saltzman, Robert Adolph	Wis.
Halyard, Mervin	D.C.	A.B. 1934, University of Michigan	
B.S. 1930, United States Naval Academy		Schaetman, Albert Howard	Wash.
Hays, Raymond Leroy, Jr.	D.C.	A.B. 1940, University of Idaho	
A.B. 1940, The George Washington University		Scott, John Reed, Jr.	Md.
Hilgatz, Herbert David	Pa.	B.S. 1943, University of Maryland	
Kahn, Leon	Va.	Sharp, J. D.	Kans.
A.B. 1946, The George Washington University		A.B. 1941, Fort Hays Kansas State College	
Kellison, James Bruce	Va.	Sheffer, Abner	N.Y.
A.B. 1943, University of Richmond		B.Chem.E. 1937, College of the City of New York	
Koskinen, Russell William	Ohio	Solomon, Lawrence Philip	N.Y.
B.S. 1943, Michigan College of Mining and Technology		Stam, Tobias Leon	N.Y.
Leimbach, Leonard LaSalle	D.C.	B.S. in Eng. 1940, The George Washington University	
A.B. 1946, Brown University		Stein, Jacob	D.C.
Lowie, Ira Melvin	D.C.	A.B. 1946, The George Washington University	
McGowan, John A., Jr.	Fla.	Stine, Wilma Pearl	Ohio
B.S. 1941, University of Miami		A.B. 1937, Western Reserve University	
March, Richard Simeon Thomas	D.C.	Swan, Robert Edington	Va.
A.B. 1946, Yale University		B.S. 1937, College of Puget Sound	
Masterman, James Aaron	Wash.	Taylor, John William	Pa.
B.S. 1948, United States Naval Academy		B.S. 1940, Indiana State Teachers College	
Mathewson, Gordon Wright	Pa.	Turrou, Edward Arnold	N.Y.
A.B. 1943, Syracuse University		A.B. 1942, The George Washington University	
McMurray, Leon Horace	N.C.	Valentin, Alaric William	Pa.
B.S. 1943, Presbyterian College		B.S. 1930, University of Virginia	
Meekison, Virginia Victoria	Ohio	Walker, Paul Howard	Mass.
A.B. 1931, Radcliffe College		Weiner, Wolford Harris	N.Y.
A.M. 1935, Ohio State University		A.B. 1940, University of Mississippi	
Merrell, John Yates	Utah	Werner, Seymour	N.Y.
A.B. 1942, Brigham Young University		A.B. 1943, The George Washington University	
Mezites, Basil Paul	N.J.	White, Harold Edward	Calif.
A.B. 1946, The George Washington University		A.B. 1941, University of Utah	
Mitchell, Franklin Peter	S.D.	Wilson, Wallace Ancil	Tenn.
Montgomery, William Jefferson	Tex.	Woods, Russell Marshall	Va.
(With distinction)			
B.S. 1941, Agricultural and Mechanical College of Texas			
Muller, Victor Casper	Va.		
B.S. 1941, University of Southern California			
Norris, Raymond Anthony	Md.		
Newlin, Joseph Herman	Pa.		
A.B. 1942, The George Washington University			
Owen, William Edison	D.C.		
Peterson, Stuart Randall	D.C.		
B.S. in E.E. 1940, Purdue University			
Pettit, Charles Joshua	D.C.		
A.B. 1936, Ohio State University			

## JURIS DOCTOR

NOVEMBER 11, 1947

Clark, Charles Fulton	Tex.	Upham, John Dale	Okla.
A.B. 1940, The George Washington University		(With distinction) B.S. 1946, University of Oklahoma	
Nelson, Lewis Clair	Utah		
B.S. 1940, Utah State College			

FEBRUARY 23, 1948

Bellis, Tom	Mo.	Camp, Robert Clifford	Va.
A.B. 1920, Southwest Missouri State Teachers College		B.S. in F.F. 1947, Purdue University	
A.M. 1911, University of Cincinnati			

MAY 26, 1948

Kalikow, Irving	N.Y.	Nilsen, Sylvia Florence	Utah
B.B.A. 1948, College of the City of New York		A.B. 1949, University of Utah	
Katz, Louis P.	N.Y.	Pope, George Allan	Idaho
B.B.A. 1949, College of the City of New York		A.B. 1942, The George Washington University	
Kipp, Mary Elizabeth	Minn.	Robertscher, Jonas Band, Jr.	D.C.
A.B. 1941, Hamline University		A.B. 1942, Brown University	
Lewis, Ralph Selden	Pa.	Rubinstein, Nathan	N.Y.
B.S.E. 1932, University of Michigan		A.B. 1938, Duke University	
McGowan, Robert Lee	Okla.	Whitel, James Warren	D.C.
(With distinction) A.B. 1943, University of Oklahoma		B.S. 1943, Wake Forest College	

## MASTER OF LAWS

NOVEMBER 11, 1947

Dorsett, Harold Lee	Wyo.	Scaplan, Alfred Long	N.J.
LL.B. 1942, The George Washington University		A.B. 1941, Columbia University	
Liputz, Herbert	Mass.	LL.B. 1946, The George Washington University	
LL.B. 1940, Boston University		Sorrell, Wilfred Byron	Me.
McKinnon, William Thomas	S.C.	LL.B. 1942, National University	
A.B. 1925, A.M. 1926, University of South Carolina			
LL.B. 1946, The George Washington University			

FEBRUARY 23, 1948

Boyer, Fred Yancy	Tex.	Hanes, Rachael Woody	Idaho
LL.B. 1942, University of Texas		LL.B. 1947, The George Washington University	
Carten, Leo Augustine	Va.	Harris, Louis James	N.Y.
B.S. 1914, Massachusetts Institute of Technology		A.B. 1937, Cornell University	
LL.B. 1942, The George Washington University		LL.B. 1939, J.S.D. 1942, St. Lawrence University	
Foster, Earl, Jr.	Okla.	Horne, Elmer Clarence	Kv.
A.B. 1941, LL.B. 1946, University of Oklahoma		LL.B. 1947, University of Louisville	
Gabert, Frederick Stewart, Jr.	Fla.	Roberts, Nathan Lee	Fla.
B.S. 1935, LL.B. 1938, University of Florida		A.B. 1926, Syracuse University	
		J.D. 1929, University of Florida	
		Smith, Lila Russell	Utah
		LL.B. 1945, The George Washington University	

MAY 26, 1948

Boxay, Paul Edward	Pa.	Cook, Walter McQueen	Ala.
A.B. 1942, LL.B. 1947, The George Washington University		LL.B. 1948, The George Washington University	



Costello, Richard Edward LL.B. 1934, University of California	Calif.	Keet, William Ward A.B. 1928, Ohio Wesleyan University	Ohio
Fadler, William Frank, Jr. B.S., LL.B. 1947, University of Arkansas	D.C.	LL.B. 1935, The George Washington University	
Grubic, Eli A.B., LL.B. 1939, The George Wash- ington University	Nev.	Pearson, Louisa Rita A.B. 1930, Georgian Court College	Conn.
Hirschman, Max Abraham B.S. 1938, M.S. in Ed. 1940, College of the City of New York	D.C.	LL.B. 1940, University of Connecticut	Okla.
LL.B. 1947, The George Washington University		Pickard, Howard Brevard A.B. 1938, LL.B. 1940, University of Oklahoma	
		Scott, Elmer Jesse A.B., LL.B. 1936, University of Wyoming	Wyo.

## DOCTOR OF JURIDICAL SCIENCE

MAY 26, 1948

Snedeker, James B.S. 1925, United States Naval Academy J.D. 1940, The George Washington University	Ga.
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## THE SCHOOL OF ENGINEERING

## BACHELOR OF CIVIL ENGINEERING

MAY 26, 1948

Balmer, Harry Arnold	Pa.	Koutsandreas, Peter Dionysios	D.C.
Colony, David Carl, Jr.	Md.	McNaughton, Harry Price	Fla.
Houk, Robin Hall	D.C.	Raker, Samuel Harry	Pa.
Jewell, Fremont Henry	Md.	Shaw, Richard Earl	Pa.

## BACHELOR OF ELECTRICAL ENGINEERING

NOVEMBER 11, 1947

Bartlett, John S., Jr.	Ohio	Schulte, Rowland Wingfield	Va.
Grant, Charles Randall	R.I.	Swirney, William	Pa.

MAY 26, 1948

Ashley, Dwight Stuart B.S. 1932, Massachusetts Institute of Technology	Va.	Redmond, Joseph Christopher, Jr. B.S. in Eng. 1944, Tufts College	Md.
Barsis, Albrecht Paul	Md.	Rixse, George Edward	Va.
Beck, Emanuel Arthur	N.Y.	Shiozawa, Sam	Idaho
Ebrite, Scott	W.Va.	B.S. in Agr. Eng. 1941, Utah State Agricultural College	
Gregg, James Clifford	D.C.	Shumaker, James Lee (With distinction)	Va.
Hodges, Malcolm Francois	Vt.	Soucek, Frank James	Va.
Jackson, John Waddell	D.C.	Thomasson, Harold Brodie	Va.
Kershaw, Albert Farrow	Md.	Vassar, Reginald Levi	D.C.
Leinbach, Henry J., Jr.	Pa.	B.S. in Agr. Eng. 1941, Virginia Polytechnic Institute	
LeReche, John Armand	Md.	Williamson, Clifton Russell	D.C.
Potter, Raymond Selva	W.Va.		

## BACHELOR OF MECHANICAL ENGINEERING

NOVEMBER 11, 1947

Swanson, Robert Warnick	Mo.
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## FEBRUARY 23, 1948

Isbisson, David Pierce  
Lange, Stanley Walter

Ga. Pratchett, Earl Wallis  
Wis.

D.C.

## MAY 26, 1948

Bane, Jack Miles  
Blossingame, Paul Arthur  
Brown, Arthur Charles  
P. Jones, Arthur Lewis  
Cotton, C. C. Anthony  
Fleming, Allan Beaumont  
Johnson, R. V. Allen  
Liles, Allen H. Giles  
Lloyd, Harold Lee

D.C. Martin, Raymond DeWint  
Va. Murray, Herbert Henry  
Va. Oakes, Lawrence Charles  
D.C. Phillips, George Weston  
N.Y. Sale, Robert Dennis  
Va. Smart, August Joseph  
D.C. Stein, Abraham Benjamin  
Md. Stensgaard, Felix Oscar  
W.Va. Stupp, Ronald Earl

D.C.  
N.Y.  
N.Y.  
Md.  
D.C.  
Calif.  
N.Y.  
W.V.  
D.C.

## BACHELOR OF SCIENCE IN ENGINEERING

## NOVEMBER 11, 1947

McBride, Daniel Arthur

D.C.

## FEBRUARY 23, 1948

Wyble, Keith Donald

Md.

## MAY 26, 1948

Bylenger, John Carter  
Belden, Thomas Graham

D.C. Eastman, Cram Hubert, Jr.  
Md. Spencer, John Wesley Holdrup

Calif.  
Va.

## THE SCHOOL OF PHARMACY

## BACHELOR OF SCIENCE IN PHARMACY

## MAY 26, 1948

Rover, George  
(Wash. D.C.)  
A.B. 1947, Bowman C. Bone  
Livy, Lewis Leslie  
Livy, Lewis Leslie  
Farr, Edward Braxton  
Gibson, William Wilson, Jr.

N.Y. Gilchrist, Kenneth Gordon  
A.B. 1947, Law, State Teachers  
Va. Ketchum, William  
D.C. Liles, Allen H. Giles  
N.D. Liles, Allen H. Giles  
D.C. R. S. Liles  
D.C. Wampler, M. H. H. H.

Md.  
Pa.  
D.C.  
Pa.  
Md.  
D.C.

## THE SCHOOL OF EDUCATION

## BACHELOR OF SCIENCE IN HOME ECONOMICS

## NOVEMBER 11, 1947

Genser, Ruth Lee

D.C.

## FEBRUARY 23, 1948

Gentry, Margarette Wallace

Va.

## MAY 26, 1948

Lamb, Jessie Clev  
(Wash. D.C.)  
Lekson, Bettie Matam

Tenn. Lusk, Barbara Ann  
Md. Weiss, Gladys Evelyn

Va.  
D.C.

## BACHELOR OF SCIENCE IN PHYSICAL EDUCATION

NOVEMBER 11, 1947

Bubonovich, Nick, Jr.  
Fedora, Walter ErnestPa.  
Ill. Weber, Paul

Pa.

FEBRUARY 23, 1948

Elliot, Sondra Ross

N.Y.

MAY 26, 1948

Baines, Dorothy  
Barnes, Susan Jane  
Cadei, Bernard Howard  
Doidge, Janet Anne  
Harpster, Lyndale Roberta  
Hirst, Anne Heston  
Hoffman, John CharlesD.C. Karle, Betty June  
Md. A.B. 1948, The George Washington  
University  
N.J. Killen, Katharine Francis  
N.Y. Little, Theresa Eleanor  
D.C. Mauriello, Matthew Joseph  
Va. Plepis, Anna Olga  
D.C. Sansalone, Goffredo Dominic  
D.C. Smith, Shirley B.

Md.

D.C.

Va.

N.J.

Pa.

D.C.

Mich.

## BACHELOR OF ARTS IN EDUCATION

NOVEMBER 11, 1947

Cox, Tiddie Leonard  
Desmond, Baker Blake  
Hastings, Delores ArleneLa. McPhilimy, Harry Simpson, Jr.  
Ala. Tallman, Raymond James  
Wis. Wasser, Frances Rothberg

Pa.

N.Y.

N.Y.

FEBRUARY 23, 1948

Umar, Madiha

Iraq Walsh, Lillian Mary

D.C.

MAY 26, 1948

Bullard, Aldine Margaret  
Fincher, Julian Alexander  
Frost, John Dean  
Goldberg, Irving  
Goldsborough, Camilla WarfieldN.C. Hansen, Arline Anderson  
Md. Hurley, John James  
Iowa Lucas, Mildred Foster  
N.J. McMahon, William Francis  
Md. Randall, Berneita Killinger

D.C.

D.C.

Va.

N.J.

Mich.

BACHELOR OF ARTS AND MASTER OF ARTS IN EDUCATION  
(Five-year Program)

MAY 26, 1948

Lovelace, Neil Richard

Mich. Wilson, Harold Maurice  
(A.B. in Ed., with distinction)

Ind.

## MASTER OF ARTS IN EDUCATION

NOVEMBER 11, 1947

Abbott, Florence Strachan  
B.S. 1944, Oklahoma Agricultural and  
Mechanical College  
Baker, Mary  
B.S. 1947, Madison College  
Beble, Paul David  
A.B. 1947, Rosewater College  
Betz, Jean Margaret  
B.S. 1944, Wilson Teachers College  
Cannon, Stanley Beverly  
A.B. 1947, Brigham Young University  
Carson, Bertha  
B.S. 1948, Columbia UniversityVa. Deane, Ella Urban  
B.S. 1944, Salem Teachers  
College  
D.C. Feltz, Edwin Rogers  
B.M. 1948, Eastman School of Music  
Va. Feltz, Helen Kay  
A.B. 1948, Howard College  
D.C. Feltz, Charles Marie  
Utah A.B. 1948, Washington College  
Fitzgerald, Edna Pearl  
B.S. 1944, The George Washington  
University

Va.

N.Y.

Iowa

Md.

Ill.

Foteman, LaVern S. B.S. 1928, Ball State Teachers College	Ind.	Morrow, Jeanita Smith A.B. 1923, Florida Southern College	Fla.
Fuller, Frank Gardner B.S. 1929, Aurora College	R I	Myers, James Jr. B.S. & P.E. 1913, The George Washington University	Ind.
Hamm, Charles Sherman A.B. 1946, The George Washington University	Mass.	Petronek, Chester Lafayette B.M. 1918, Ohio College	Md.
Jones, Elizabeth T. A.B. 1923, Concordia College	Md.	Prosser, Barbara Elizabeth A.B. 1927, Wellesley College	D.C.
Jones, Bettie Grace A.B. 1946, The George Washington University	Va.	Rosenfeld, Max B.S. 1926, Wilson Teachers College	D.C.
Jones, Hugh Howard B.S. 1921, College of William and Mary	Va.	Rose, Everett L. B.S. 1920, Western Kentucky Teachers College	Va.
Keseler, Le. Glendon A.B. 1936, Shepherd State Teachers College	W.Va.	Schaefer, Henry Carson B.S. & LL.D. 1917, Pennsylvania State Teachers College, West Chester	D.C.
Key, Norman A.B. 1928, Howard College	D.C.	Spratt, George A. B.S. 1924, Boston College	D.C.
Kidd, Flora Lindsay B.S. 1929, Wilson Teachers College	D.C.	Spratt, George A. A.B. 1929, Boston College	Va.
Killey, Robert Jay B.S. 1924, Indiana State Teachers College	Pa.	Stewart, Anna Violet B.S. 1927, University of Missouri	Okla.
Louis, C. Fred A.B. 1922, Central State College	Va.	Taylor, Marion Frances B.S. 1927, Western College	Va.
Marrow, Frank Thomas A.B. 1929, Aurora University	D.C.	Taylor, Marion Frances B.S. 1927, Western College	Va.
Myers, James Jr. B.S. 1913, The George Washington University	Va.	Thompson, M. J. M. B.S. 1924, Mary Washington College	Wash.
Murray, Harry W. A.B. 1928, Boston College	Va.	Vize, Ann R. A.B. 1924, The George Washington University	Pa.
Murray, Evelyn DeWitt A.B. 1924, The George Washington University	D.C.	Walt, Helen Frances A.B. 1924, The George Washington University	D.C.
Muller, M. A. B. A.B. 1923, Indiana State Teachers College	Md.	Walt, Helen Frances A.B. 1924, The George Washington University	D.C.

## FEBRUARY 23, 1948

Brown, Raymond B.S. 1922, New York State Teachers College, Poughkeepsie	D.C.	1. Jones, David H. A.B. 1922, Aurora University	Pa.
Carr, Philip B.S. 1924, Appalachian State Teachers College	Va.	1. Jones, David H. A.B. 1922, Aurora University	D.C.
Gardner, Ralph Thomas B.S. 1922, Temple University	Va.	Murray, Harry W. A.B. 1928, Boston College	N.Y.
Hall, Walter Graham B.M. 1912, Catholic University of America	Md.	Quinn, N. J. A.B. 1924, The George Washington University	N.Y.
Jones, Howard O. B.E.B. 1924, Western State Teachers College, T. C. Case	W.Va.	Phillips, Frank E. B. Jr. A.B. 1928, The George Washington University	D.C.
Killey, Robert Jay B.S. & P.E. 1913, The George Washington University	N.J.	Spratt, George A. A.B. 1929, Boston College	Pa.
Kidd, Flora Lindsay B.S. 1929, Wilson Teachers College	D.C.	Stewart, Anna Violet B.S. 1927, University of Missouri	N.Y.
Lewis, J. P. A.B. 1921, Arkansas Agricultural and Mechanical College	Ark.	Taylor, Marion Frances B.S. 1927, Western Teachers College	D.C.

## MAY 26, 1948

Beall, Martha Catherine A.B. 1921, Trinity College	D.C.	Brown, Robert Eugene French B.S. & LL.D. 1922, University of Miami	Fla.
Brown, Harold F. L. A.B. 1924, The George Washington University	Mass.	Dellinger, Anthony James B.S. 1922, New York State Teachers College, Poughkeepsie	D.C.
Burbine, Lucie Moore A.B. 1924, Central State College	Okla.	Dellinger, Anthony James A.B. 1921, Harvard University	D.C.

Drager, Edith Prindle B.S. 1936, Wilson Teachers College	D.C.	Knupp, Stanley Allen B.S. 1936, Madison College	Va.
ElKinany, Mohamed Gamal Eldin D.E.L. 1936, University College of Southwest Louisiana	D.C.	Labukas, Peter Paul B.S. in P.E. 1947, The George Washington University	Pa.
B.Litt. 1944, Ohio State University	Pa.	Massoletti, Louis A.B. 1941, University of California	Calif.
Fitzgerald, Wilnot Herman A.B. 1947, The George Washington University		A.B. 1936, The George Washington University	Va.
Foster, George Samuel B.S. 1943, University of Tennessee	Tenn.	Parker, Vernon Howell A.B. 1941, Southwestern Louisiana Institute	D.C.
Graham, James Wollard B.S. in P.E. 1946, The George Washington University	Md.	Price, Frederick William II B.S. 1941, The George Washington University	Va.
Grimm, Floris Taylor A.B. 1937, Shepherd College	Md.	Rook, Joseph Samuel B.S. 1941, Pennsylvania State Teachers College, Shippensburg	Pa.
Hall, James Herrick A.B. 1947, Baylor University	D.C.	Shaughnessy, Thomas Elliott B.S. 1933, Massachusetts Institute of Technology	Va.
H. 1941, Univ. Virginia	D.C.	Silbey, Dorothy Lebnan B.S. in Ed. 1937, Wilson Teachers College	D.C.
B.S. 1941, University of Maryland	Mass.	Spencer, Helen Mather A.B. 1942, The George Washington University	D.C.
A.B. 1938, Radcliffe College	D.C.	Stewart, Lettie Ethel A.B. 1918, The George Washington University	Md.
H. 1941, Univ. Frost	Va.	Walker, Mary Eleanor B.S. 1937, Wilson Teachers College	D.C.
H. 1941, Univ. Henry B.S. in Ed. 1928, Pennsylvania State Teachers College, Shippensburg	N.Y.	Walker, Robert Butler A.B. 1941, Duke University	Va.
H. 1941, Univ. Nathan	Ala.	Willson, Mary Virginia B.S. 1934, Mary Washington College	D.C.
B.S.S. 1939, College of the City of New York	Md.	Zeldin, Abraham Jack B.S. 1930, New York University	Md.
Johnson, Ketur Raye A.B. 1941, The George Washington University			
Jones, William Hall A.B. 1942, The George Washington University			
Karle, Betty Lore A.B. 1945, The George Washington University			

## DOCTOR OF EDUCATION

NOVEMBER 11, 1947

Gallatin, Ralph O. B.S. 1931, Indiana State Teachers College A.M. 1937, Columbia University Thesis: "Teacher Education in India: A Study in Arts with Special Emphasis on Evaluative Criteria"	Ill.	Spizius, James E. Ph.D. 1935, A.M. 1921, Dickinson College A.M. 1928, Columbia University Thesis: "The Development of a National General Education Program for Maryland"	Md.
Helfferich, Marjorie B.S. in Ed. 1927, Temple University A.M. 1931, The George Washington University Thesis: "The American Kindergarten in France"	Md.	Wells, Earl Francis A.B. 1921, Washington College A.M. 1926, Columbia University Thesis: "Trends in the Objectives, Subject Matter Contents, and Emphases of American History Teaching in the Senior High School Since 1890"	D.C.
Margolis, Donald H. B.F.L. 1927, Springfield College A.M. 1932, New York University Thesis: "Criteria of a Good Physical Education Program for Boys in the Senior High Schools"	Md.		

FEBRUARY 23, 1948

Friedrich, Clifford Hayes A.B. 1935, Manchester College A.M. 1939, University of Minnesota Thesis: "Factors Related to the Effectiveness of Counseling"	Va.
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MAY 26, 1948

Darter, Oscar Hamilton  
AB 1922, East Central State  
Teacher, College, Alameda  
AM 1929, Central University  
Topic: "Theology and History  
in Perspective: A Study of Juda-  
ism in a Cultural Context"

Va.

SCHOOL OF GOVERNMENT

BACHELOR OF ARTS IN GOVERNMENT

NOVEMBER 11, 1947

Albright, Thomas Roman	Pa.	Leach, Ernest William	D.C.
Anderson, Paul	D.C.	Leach, Ernest William	Mass.
Anderson, Robert Banks	D.C.	Marshall, Robert Lee	Mont.
Ash, William Little	D.C.	W. H. Marshall	
Baker, Douglas Carroll	D.C.	M. M. McMillan, Jr.	D.C.
Baker, George Edward	Ont.	W. H. McMillan, Jr.	N.Y.
Baker, Mary Anne	Nev.	McMillan, William	N.Y.
Chapman, John	Cal.	McMillan, William	D.C.
(With distinction)		McMillan, William	D.C.
Dallager, Clarence Wayne	Iowa	McMillan, William	N.Y.
Derry, Mary Anne	Cal.	McMillan, William	D.C.
Diamond, Isaac	Me.	McMillan, William	Tex.
Dodd, Andrew Minyard, Jr.	N.Y.	McMillan, William	N.Y.
Dunbar, John	N.Y.	McMillan, William	D.C.
Fair, Robert James	I.D.	McMillan, William	D.C.
Frost, John James	Cal.	McMillan, William	Mass.
Gottor, Frank Harry	Pa.	McMillan, William	
Hansen, Gordon Henry	N.D.	McMillan, William	D.C.
Hicks, Louis Edward	Me.	McMillan, William	Me.
Hoffman, Irving	N.Y.	McMillan, William	Me.
Huffman, William F.	Pa.	McMillan, William	Mass.
Jackson, Frank Shields	D.C.	McMillan, William	Sc.
(With distinction)		McMillan, William	Cal.
Jacobs, Joseph Thomas	Pa.	McMillan, William	Ill.
Kadushin, Herbert Abner	N.Y.	McMillan, William	N.Y.
Landau, Morton	N.Y.	McMillan, William	

FEBRUARY 23, 1948

Albright, Charles Fred	Va.	Leach, Ernest William	Tex.
Baker, Robert Henry	D.C.	Leach, Ernest William	D.C.
Baker, Thomas Lawrence, Jr.	N.Y.	Marshall, Robert Lee	Va.
Baker, Robert Abbott	Me.	Marshall, Robert Lee	Pa.
Baker, John G. G. G.	Me.	Marshall, Robert Lee	Va.
Daly, Mary Mary	Va.	Marshall, Robert Lee	Cal.
Dart, George Bernard	N.Y.	Marshall, Robert Lee	Ill.
Dart, George	D.C.	Marshall, Robert Lee	D.C.
Dart, George	N.Y.	Marshall, Robert Lee	Philippines
Dart, George	Va.	Marshall, Robert Lee	Me.
Dart, George	Kan.	Marshall, Robert Lee	D.C.
Dart, George	Cal.	Marshall, Robert Lee	N.Y.
Dart, George	N.Y.	Marshall, Robert Lee	N.Y.
Dart, George	Kan.	Marshall, Robert Lee	D.C.
Dart, George	D.C.	Marshall, Robert Lee	D.C.
Dart, George	Ont.	Marshall, Robert Lee	D.C.
Dart, George	Me.	Marshall, Robert Lee	D.C.

MAY 26, 1948

Albright, Lily James	N.Y.	Baker, Robert G.	N.Y.
Anderson, Robert Edward	Pa.	Baker, Robert G.	Mass.
Baker, Charles Jewell	D.C.	(With distinction)	

Bender, William Carl, Jr.	D.C.	Ludwig, Walter Fulton, Jr.	Va.
Bonifield, Robert Thomas	Fla.	Lyda, James Claude H.	Okl.
Boston, Edward John	Ohio	MacNab, John Erwin	Canada
Brown, Theodore Louis	Ind.	Mann, Robert Paul	D.C.
Bryant, Chester James	N.Y.	Markoff, Richard Paul	Mich.
(With distinction)		Martin, Fred Allen	Mont.
Carter, George Washington	Ohio	Masters, Edward Eugene	Ohio
Cassidy, John Maria	Nicaragua	(With distinction)	
Chandross, Robert Andrew	Md.	McCreary, Elizabeth Fielding	Philippines
Chapman, Michael Nicholas	N.Y.	McLaughlin, Hugh Sinclair, Jr.	Miss.
Cheney, Paul Edwin	N.Y.	McMahon, Ralph Weller	Ohio
Deeter, William Taylor, Jr.	Pa.	Miller, Herbert John, Jr.	D.C.
Dekey, Basil Gordon	D.C.	Moncure, Thomas St. Leger	Va.
Dinger, Albert Pierre	Idaho	Moseley, Martin Winn, Jr.	Oreg.
Duff, David Dawson	Tenn.	Mulberry, Richard, Jr.	Ky.
Dunbar, James Randolph	D.C.	Nesbitt, Henry Clay	W.Va.
Elliott, Maurice Deane	Mo.	Reichard, William Wendell	Calif.
Evans, Albert Franklin	Va.	Roberts, Charlotte	D.C.
Falk, Florence	Va.	Roberts, Margaret Frances	D.C.
Franklin, Joseph Gardner	Md.	Rockwood, William Peck	Oreg.
Frazier, Elizabeth Jane	Ohio	(With distinction)	
Gardner, Alice Robert	N.J.	Ryan, Joan Lorey	N.Y.
Gardner, David Lee	N.C.	Sands, John Edward	Fla.
Gardner, Jack Neil	S.D.	Scariot, Angelo John	Va.
Graham, George B.	Kans.	Schneiderman, Jeremiah	N.Y.
Hartman, David William	D.C.	Schutz, Jack Jacob	D.C.
Hartman, Nancy Jane	D.C.	(With distinction)	
Hammitt, John Charles	D.C.	Sheff, Irving Hyman	Mass.
Hargy, Francis Robert	Md.	Shugart, James Earl	Tex.
Harrington, Charles Wilmott, Jr.	Wash.	Sims, John W.	D.C.
Hayley, Basil	Va.	Simon, Robert Charles	Ohio
Helm, Herschel Hancock, Jr.	Ky.	Snider, John Lawrence	Va.
Hoofacker, Roscoe Lewis	Ariz.	Stevenson, Ruth Blackwell	Md.
Howard, John Ben	Mo.	Sussholz, Leonard B.	N.Y.
Hudson, James Matthew	W.Va.	Talmage, Henry Gardner	Utah
Jacobson, Melvin Lawrence	D.C.	Thompson, Robert Louis	Ohio
Jacobson, Odd Thomas	N.D.	Trucks, Elizabeth McWane	Va.
Jasinowsky, Bernard Adolph	N.Y.	Turbeville, John Harold	Fla.
Keeler, Betty Blue	Ala.	Ulrich, John Francis	Pa.
Kelly, Francis Keith	Ind.	Ulrich, Robert James	Wis.
Keough, Bernard Edward	Pa.	Umstead, Lyman John	Pa.
Kinsel, Alan Edson	Va.	Weiss, William	N.Y.
Knaebel, Irvin George, Jr.	Ky.	Wendt, William Andrew	S.D.
Knouse, Helena Christina	Md.	West, Robert Layton	Md.
Lambros, Philip Russell	Mass.	Wood, Jerold Lawrence	Mont.
Law, Joseph J.	Nebr.	Woodward, Nancy Rika Hanck	D.C.
Lawrence, Malcolm	D.C.	Worthington, Phyllis Lee	Md.
Lee, Leroy Linwood	Md.	Wortman, David Morris	D.C.

## MASTER OF ARTS IN GOVERNMENT

## NOVEMBER 11, 1947

Baker, Alton Wesley	Tex.	Moor, Ruth Sanders	Ga.
B.B.A. 1936, University of Texas		B.S. 1939, University of Georgia	
DeRidder, Victor Albert	Belgium	Pelton, Marion Henrietta	Pa.
Ph.D. 1945, State University of Ghent		B.S. 1934, Edinboro State Teachers College	
Moor, Ralph Carl	Ga.	Skinner, John William	Md.
B.S. 1937, University of Georgia		A.B. 1943, Wesleyan University	

## FEBRUARY 23, 1948

Brugioni, Dino Anthony	M.	Russell, James Ward	Mass.
A.B. 1946, The George Washington University		A.B. 1946, The George Washington University	
Hu, Y. H.	China	Swanson, Melvin Davis	D.C.
Mohr, Frank R.	Unk.	A.B. 1945, Connecticut College	D.C.
A.B. 1944, The George Washington University		Tyler, Clifford Wayne	D.C.
Plank, Rosamary Douglas	N.Y.	A.B. 1944, The George Washington University	
A.B. 1944, University of Rochester		Watts, Robert Mark	Calif.
		A.B. 1943, University of California	

MAY 26, 1948

Carroll, Mary Josephine A.B. 1941, Maryville College Columbia, Mo., U.S.A.	Tenn.	Kennedy, Donald Thomas B.S. 1942, Miami University Oxford, Ohio	Ohio
A.B. 1948, St. John's University, Statensborg, N.Y.	Conn.	Mayer, Samuel Henry B.S. 1944, New York University New York City	N.Y.
Dodd, Andrew Maynard Jr. A.B. 1947, The George Washington University	Tex.	Ross, John Edgar Jr. A.B. 1948, The George Washington University	Calif.
Ellis, Arthur Moore A.B. 1944, The George Washington University	Miss.	Ross, Donald Marshall A.B. 1948, The George Washington University	Va.
Greig, Charles Robert A.B. 1944, University of California at Los Angeles	Calif.	Tate, Robert Eugene B.S. 1948, Tule College Tule, Calif.	Pa.
Jones, David W. III A.B. 1947, University of California at Los Angeles	Calif.	Trotter, Henry Morris A.B. 1944, The George Washington University	Ind.
	Calif.	Wright, Louis Houston B.S. 1944, Louisiana College Bossier, La.	La.

GRADUATE COUNCIL

DOCTOR OF PHILOSOPHY

NOVEMBER 11, 1947

R. H. Edith Myette A.B. 1942, Trinity College Hartford, Conn.	Miss.	Russell, Eugene Ellsworth A.B. 1946, A.M. 1947, University of Georgia	Ga.
Thesis: "A Sociological Study of a Section of Negroes in the Recreation of the Negro Struggle in the U.S.A."		Thesis: "Six Tragic Years in the History of the Negro in the U.S.A."	D.C.
		Walt, Kenneth Marquette A.B. 1948, A.M. 1947, The George Washington University	
		Thesis: "George Russell: Playwright- Actor"	

FEBRUARY 23, 1948

Richards, Sarah Elizabeth A.B. 1940, University of California at Los Angeles	Calif.	A.M. 1948, The George Washington University	
B.S. in U.S. 1942, University of Washington		Thesis: "A History of Trade Union ism in Latin America (With Special Emphasis on the Political Aspects)"	

MAY 26, 1948

Alpher, Ralph Adler B.S. 1943, M.S. 1945, The George Washington University	Mich.	M.S. 1948, Delaware Institute of Poly- technic University	
Thesis: "On the Geometric Relative Abundance of the Elements"		Thesis: "Some Aspects of the Anti- neutronic Reaction"	
Burr, Daniel Allen B.S. 1944, College of the City of New York	Mich.	A.B. 1948, Virginia Polytechnic Institute	Mich.
A.M. 1949, Columbia University		M.S. 1944, University of California, Berkeley	
		Thesis: "The Structure of the Atomic Nucleus"	

HONORARY DEGREES

MARCH 23, 1948

Blodgett, Walter Andrew	Doctor of Science	Fleming, Philip Brackett	Doctor of Civil Law
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MAY 26, 1948

Doyle, Henry Gratton	Doctor of Law	Kayser, Elmer Louis	Doctor of Law
Van Vleet, William Cabell	Doctor of Law		



## RECIPIENTS OF AWARDS

### SCHOLARSHIPS

1947-48

*The American Foundation for Pharmaceutical Education Scholarship:* Arvilla Keller

*The Byron Andrews Scholarships:* Beverly Mae Barrett, Ann Courtright, Elizabeth McWane Trucks

*The Emma K. Carr Scholarships:* David Stanley Davis, Abraham Joseph Dekelbaum, John Joseph Dwyer, Judah Greenwald, Manuel Louis Heizer, Wayne Thompson Jacob, Howard Hamilton Johnson, Jr., Fritz Reiner Kohn, John Richard Krueger, Charles Ernest Lilien, Melvin Stanley Rosenthal, Harold Stulman, James Alexander Sinsabaugh, Howard Robert Unzer, Farrell Roy Werbow, Joseph Jay Wolf

*The Columbian Women Scholarships:* Marcia Bateler, A.B., Norma Doris Evenson, Carol Mazatoff Finelbaum, Mary Cecelia Guthrie, Elaine Mildred Langerman, Phyllis Sheppy, Elizabeth McWane Trucks, Peachie Jane Watkins, Vera Jordan Weiskopf, Joyce Margarette Wilson

*The Henry Harding Carter Scholarship:* Vincent Harry Hennessy

*The Robert Farnham Scholarship:* Jean Miller Platt

*The Elma Lewis Harvey Scholarship:* Helen Ludwig

*The High School Scholarships:* Marion Baker, Virginia Lee Bangs, Grace Isabella Banker, Julius Isaac Chan, Jean Ottilia Casanova, Michael Anthony Corrado, Dorothea van Rensselaer Cruger, Albert Morris DaCosta, Jean Nelson Edgar, James Evans Forcum, Meredith Gallup, Paul Weatherly Garrett, Barbara Louise Hanby, Hilja Gay Haron, Jean Doris Hartley, Marjorie Ann Hill, Edward W. Humire, Elise Hill Johnson, Elin Ruth Krauss, Frances Lee, Albert Lawrence Lloyd, Jr., Mary Olga Longley, Patricia Ann Ludwig, John Wallace McMeel, Mary Alice Novinger, Elizabeth Ann Paisley, Robert John Palenich, Howard Clayton Paul, Patricia Ann Peterson, Charles Bernhard Redmond, Bernard Rubin Seal, Elizabeth Anne Sheppard, Barbara Anne Simms, David Rowar Spain, Morton Lee Spiegel, Clarence Francis Served, James Kermit Van Syke, Firth Rita Venerky, Josephine Ann Walsh, William Upton Walton, Janet Wildman

*The Newspaper Scholarships:*

*Evening Star:* Frederick Adolph deLuna, Eleanor Kaye Ryce, Herbert Clyde Melvin

*Washington Post:* John Russell Williams

*The David Spencer Scholarship:* Gloria Halpern, A.B.

*The Mary Lowell Stone Scholarship:* Mary Louise Benson

*The Trustee Scholarships:* Richard Gordon Stone, Annabelle Cowles Eubank

*The John W. Huntington Scholarship:* Maryanna Elizabeth Dotson

*The Ellen Winkul Scholarship:* Olga Mae Hilliard

### PRIZES

1947-48

*Alpha Chi Sigma Freshman Awards in Chemistry:* Julian Howard Singman, Solomon Elron Barr, Robert William Trover

*Alpha Chi Sigma Senior Award in Chemistry:* Allen Gardner Wise



- Alpha Delta Pi Award to that woman member of the junior class with the most outstanding record in scholarship, extra-curricular activities, and service to the University:* Mary Olga Lookey
- Alpha Kappa Psi Award in Commerce:* Alura Martin
- American Institute of Chemistry Award in Chemistry:* Paul Augustus Thomas, Jr.
- Byrne Thurtell Burns Memorial Award in Organic Chemistry:* Paul Augustus Thomas, Jr.
- Chi Omega Award in Social Sciences:* Vera Jordan Weisskopf
- Colonial Dames Award for an essay on Colonial History:* Chester James Byrns
- John Henry Cowles Award in Government:* Chester James Byrns, Jack Jacob Schmitz
- Devott Clinton Croissant Award for an essay on drama or the theater:* Benjamin Hoff DeMott
- E. K. Cutter Award in English:* Sherwood Smith
- Daughters of the American Revolution Award for an essay on American history during the period of the American Revolution:* Joyce Marguerite Wilson
- Law Days Awards in Public Speaking:* Chester James Byrns, Charles Donald Matthews, William Peck Rockwood
- Delta Gamma Award to that woman member of the graduating class with the highest scholastic standing:* Vera Jordan Weisskopf
- Delta Zeta Award in Botany:* Marianna Boulak Avram
- Worcester Award in Patent Law:* Gilbert Bernard Shure
- Eliot Award in Greek:* Sally Chew Deszer
- Joshua Evans III Memorial Award to that man in the graduating class who has demonstrated his signal ability in the social and political sciences and who has given promise of the interpretation of that ability in good citizenship among his fellows:* Roscoe Lewis H. Tucker
- Wilfrid F. Fitch Award in Chemistry:* Paul Augustus Thomas, Jr.
- Abner Douglas Goddard Award in American Literature:* Elizabeth Crawford Allen
- Edward Carrington Goddard Award in French:* Anne Norton Bray
- James Douglas Goddard Award in Pharmacy:* George Bader
- Morgan Richardson Goddard Award in Commerce:* Herbert Emerson Finest
- Gardner G. Hubbard Memorial Award in United States History:* Stuart Ray Giers
- Kappa Kappa Gamma Award in Botany:* Wilfred Ray and MacComick
- John Bell Larner Award to that member of the graduating class of the Law School with the highest scholastic standing:* John Dale Upton
- Mortar Board Award to that woman student in the Sophomore Class having a scholastic standing of B or higher and the most outstanding record in activities:* Sally Ann Evans
- Omicron Delta Kappa Award to that member of the Senior Class who, throughout his course, has done the most constructive work in student activities:* Vincent Henry Jewell
- John Oliniaus Award to that member of the graduating class of the School of Medicine with the highest scholastic standing:* Film Shumaker Sanger
- Psi Eta Sigma Award to the incoming male student attaining the highest scholastic average in his first full term of work:* Albert Lawrence Lloyd, Jr.
- Psi Sigma Kappa Award to the winner in a freshman oratorical contest:* Abraham Sperling
- Pi Beta Phi Award to that woman member of the Senior Class who, throughout her course, has done the most to promote student activities:* Barbara Louise Hanby
- Pi Lambda Theta Award for the most meritorious Master's thesis in Education:* Sterling Grundy Callahan

*Ruggles Award in Mathematics:* Michael Salvatore Montalbano  
*Sigma Kappa Award in Chemistry:* Solomon Etzem Barr  
*Stoughton Award in Latin:* John Richard Krueger  
*James M. Wolfe Sterrett, Jr., Award in Physics:* James Mahan Roamer  
*Alexander Willbourn Weddell Award for an essay on World Peace:* Roscoe Lewis Hoffacker

## STUDENT ASSISTANTS

JUNE 1, 1947 TO JUNE 1, 1948

*Art:* Charlene Holley, Ann Elizabeth Mears  
*Biology:* Martin Anderson, Frank Redneil Brown, Thomas Melvin Burden, George Steykin Cain, James Leon Garza, Susan Cornelia Gouge, Thomas William McKinley, Morton Stark, Michele Williams  
*Botany:* Patricia Eileen Aylward, Ayres Ayre, Martin George Blochman, William Crowe, Thomas deKornfeld, Robert Eugene Dirks, James McMillan, Glenn Franklin Morrison, Jr., Marian Evelyn P. H. A.M., Arthur Thorne, B.S., Harland Walter Westerman  
*Business Administration:* Dolores Bess Anzello, Dana Abbott Batchelder, Harold Ralph Benson, Harry Bell Brucey, Seymour Deffin, Fred Philip Freed, Robert Henry Harvey, Herbert Wendell Hurdley, Frank Conrad Kemer, Ralph Leon Javensand, Richard Mathew, Jr., Arthur Cornelius Rayer, Seymour Rottenberg, Albert Simoni, John Stewart, Florence Hanson Thompson, A.B., Archie Wilson, Arthur Ira Wolf, James William Wright  
*Chemistry:* Elsie Anne Branderburger, Carl Casper, Robert Engle Dailey, Charles Everett Dean, Shirley Gindoff, Jane Harcourt, Alan Hall, Nancy Jane Tucker, LeGrand Gerard Van Uffert, Allen Gardner White  
*Civil Engineering:* Harry Arnold Bernier, Jack Miles Bane, Donald David Blanchard, Aubrey Lewis Burrows, Don Ivan Galloway, Jr., Vincent Harry Hennessey, Roy Alan Johnson, Peter Dionysius Karamichew, Samuel Harry Raker, Robert Dennis Sale  
*Electronics:* Thomas Roman Albert, Patricia Marie Albert, Henry Bardach, Carl Edward Bartel, A.B., James Melore Bell, A.B., Gordon Bradford, Calvin David Cowles, B.S., Frederick D. Sovat, Crew, Lita William Gibbs, A.B., Teresa Cable Liden, A.B., Louis K. Kozlowski, William Francis Edward Long II, A.M., Helen Ludwig, William Walter Lutton, A.B., Alton Martin, John Wallace McCutley, A.M., Ralph Jack McGuire, Charles Graham McLean, Merna Howard Miller, A.B., Hugh Stanton Norton, Thomas Oberatt, Clarence Orlin Parker, A.B., Jane Moffat Parker, A.B., Richard Purcell, Richard McCaffrey Robinson, A.B., Charles Todd Stewart, Jr., A.B., Robert Leonard Tate, B.S. in M.E., Irving Henry Taylor, Jr., Adams Barclay Taylor, Jr., Frank Lyle Wideman, B.I., Donald Eugene Woolley, A.B., Donald Young  
*Education:* Frances Guidrey Hayes, A.B., Neil Richard Leach, Harold Maurice Wynn  
*Electrical Engineering:* Perry Joseph Jecko, Reid Dennis Mayo, Raymond Silva Patten, Stevenie Rabie  
*English:* Thomas McTyghe Clarke, Jentry Scott Holmes, Joan Fiting LeFevre, A.B., Stella Swingle Reed, Donna Winston, A.B., David Wortman  
*Geography:* James Cornelius Van Slyke, Jr.  
*History:* Nancy Elise Bernier, Howard Hall Borthwick, A.B., Robert Lee Burns, Chester James Burns, Kenneth Wood Crosby, B.S. in I.J., A.M., F. Lint Virginia Cunningham, A.B., John Dean Frost, Raymond LeRoy Hays, A.B., Jack Wilkeson Henry, Jr., A.B., Roy Harry Hoopes, Jr., A.B., Fugenie Therese Iam, John Edwin MacNab, Edward Masters, Marian Miles Morris, Stuart David

- Nelson, Jean Louise Oswald, William Dennis Thomey, A.B., Virginia Nesbitt Warren
- Mathematics:* Beverly Mae Barrett, John Badger McKeehan, John Adolf Nohel, Leonard Alfred Snider
- Mechanical Engineering:* Forrest Heratio Bell, Arthur Charles Brown, Gail Wadden Crossen, Jr., Scott Elbrite, Stanley Walter Lange, Raymond DeWint Martyn, Robert Dean Schwab, Charles William Neuhauser, Lawrence Charles Oakley
- Pharmacy:* John Charles Bateman, Russell Kulmer Hollingsworth, Jr., Clyde George Johnson, Richard Lee Miner, Clyde Ford Whitley
- Philosophy:* Maudeleine Santel Contry, Simey Chew Dessez, James Winn O'Kelly, Wray Smith, Bert Thomas, A.B.
- Physical Education for Men:* James Wiley Jacobs
- Physics:* Charlotte Beall, Francis Gerard Browning, John Church, George Arthur Craig, Robert Franklin Custard, Robert David, John Quincy Duncan, George Frederick Ench, Richard Edwin Hunter, Charles Francis Luce, Byron Butler Mizel, Horton Bryant Sabin, B.S., William Upton Watson, William Kirtledge Whittenore
- Political Science:* John Lawrence Bellinger, Jr., James Lloyd Day, Jr., Eva Mae Dorton, Roscoe Lewis H. Hacker, Gerald Peter Holmes, A.B., Joseph Brown Jackson, Jr., A.B., Doris Jones, Charlotte Doris Miller, Jacqueline Bates Perry, Eugene Orbeck Rotchen, A.B., Joan Lorey Ryan, Eleanor West Shonyunk, A.B., Doris Newell Smith, A.B., Ruth Blackwell Stevenson, Elizabeth McWane Trucks, Nancy Hank Woodward
- Psychology:* Bertha B. Barger, A.B., Beverly Anne Batley, Beverly Jean Berry, Catherine Berice D'Arcy, Lois Percelly Dickson, A.B., Edmund Winston Faison, Ann Kenneth Hathaway, Harry Karlson, Ellen Ruth Kraus, William John Mark, Margaret Alice Peoples, A.M., Joan Miller Platt, Betty Anne Price, Laura Shapiro, Charles Eric Sisson, Dorothy Francis Snyder, A.B., Lawrence Godfrey Woodward, Douglas Geer Winkler
- Romance Languages:* Jacqueline W. Black Lever, Donald Lubin, Anna Josephine Smith
- Scientific Studies:* Maureen Ruth Gine
- Sociology:* Marion Epstein, Marilyn Matteson
- Spanish:* Stanley Louis Berlesky, Evelyn Jeanne Blazer, Charles Wilmer Harrington, Jr., Isadore Isaac, Mary Jane Nelson, Mary Dean Parks, A.M., Nelson Hank Wertz
- Statistics:* Robert Andrew Chamberlain, George Linden, Richard Myers Warfield, Kenneth William Webb, Jane Frances Whitmore
- Zoology:* Robert Tucker Abbott, B.S., Charles Eugene Ball, Dorothy Louise Beland, Fay Hall Boslie, Le Anne Bunn, William Kiesel Cameron, Charles David Carter, Frances Louise Deane, Theodore Franklin Dunn, Elvin Adams Durrington, Jr., Robert Fawcett Fawcett, Mary Clair Flanagan, Ann Helen Gerstfeldt, Gloria Swanson Galloway, Doris Marie Harris, A.B., Virginia Mildred Johnson, Elizabeth Moore Lane, Arville Keller, Frank C. Kyle Kitchner, Peter William Kyrleis, Frank Lincoln Lambert, Georgia Carolyn Lancaster, Marie Barbara LeRoux, Margaret Fries Lane, B.S., Dorothy Rex Mumpin, Milton Jean Maxwell, Kirk Oliver Moberg, Stanley Fletcher Patton, Jr., Charles Lay Pitzer, Raymond Edward Ryan, Jr., Annette Rios, John William Saville, Rudolph Siegfried Schreiner, Charles George Stockard, Arthur Susan, Harold Griffith Sutton, Jr., Forest Howard Towse, Jr., Dorothy Anne Washington, B.S., Rosalie Ann Whyte, A.B.



# STUDENTS REGISTERED

## SUMMER TERM 1947

## FALL AND WINTER TERMS 1947-48

Aabel, Bernard		Wis.	Abramson, Adele	D.C.
B.S. 1942, University of Minnesota			Abramson, Marion	N.Y.
Adams, Isaacate Alfred		Ga.	B.B.A. 1942, College of the City of New York	
B.S. 1943, University of Chicago			Abreo, Nancy Lee	D.C.
Abbe, Janet Louise		Mich.	Abril, Lamarque Milagros	D.C.
Abbe, Mary Hyatt		Md.	Abshir, Iov I. Sh	Ill.
Abbott, Donald Lockhart		Tex.	Abushady, Safewa	D.C.
Abbott, Edward Abbott		D.C.	Acciardo, Pasquale Louis, Jr.	Pa.
Abbott, James Addison		N.Y.	Accrocco, Russell Anthony	D.C.
Abbott, Kathryn Kalbas		Md.	Ackerly, Robert Thomas	N.Y.
B.S. 1937, University of Maryland			Ackerman, Joseph Laurence	Del.
Abbott, Lawrence William		Va.	Ackerman, Leon Kenneth	D.C.
Abbott, Robert Sutton		Ohio	Ackerman, Paul	D.C.
A.B. 1943, Kent State University			Acree, Helen Virginia	N.Y.
Abbott, Robert Tucker		Va.	A.B. 1930, Hunter College	
B.S. 1946, Harvard University			Acree, Ross Jackson	D.C.
Abel, Edward		Mass.	Adair, James R.	Va.
Abel, Leonard Leon		D.C.	Adams, Allen Bond, Jr.	N.J.
Abel, Marie Palmer		Va.	B.S. 1912, United States Naval Academy	
B.S. 1947, University of Georgia			Adams, Alton George	D.C.
Abell, William Howard		Va.	Adams, Edith Meriwether	Fla.
Abelson, Esther Marina		Cuba	Adams, Edward Paul	Pa.
Abelson, Maria Luisa		D.C.	Adams, Ernest Eugene	Va.
Abelson, Anna Lee		D.C.	B.S. 1918, University of Maine	
Abelson, Alan Joseph		Pa.	Adams, Frederick Armstrong	Va.
Abel, Joseph, Mary Jane		Va.	Adams, Frederick Fowler	D.C.
Abelson, Thomas Roman		Pa.	Adams, Herbert Harrison	D.C.
Abert, William Arvid, Jr.		D.C.	Adams, Irving Winthrop	D.C.
Abert, Robert Eugene		D.C.	LL.B. 1934, Fordham University	
Abernathy, Winston Sterling		D.C.	B.S. 1916, College of the City of New York	
B.S. 1945, United States Naval Academy			Adams, Jane Marie	D.C.
Abernathy, Laurence Allen		Md.	Adams, Jay Harry, Jr.	D.C.
B.S. 1946, United States Naval Academy			Adams, Josephine Mary	N.Y.
Abington, Florence Straphen		Va.	Adams, Leontine Towson	D.C.
B.S. 1923, Oklahoma Agricultural and Mechanical College			Adams, Mary Kathryn	D.C.
Abney, Archie Lowell		Ill.	Adams, Richard Hugh	D.C.
B.S. 1939, University of Illinois			Adams, Robert Melvin	D.C.
Abraham, Abraham Samuel		Calif.	Adams, Sylvia F.	Fla.
B.S. 1938, Westminster College			B.S. 1940, Northeastern State College	
Abrahamson, Helen Melik		D.C.	Adams, Keith Earl	Kans.
Abrahamson, Viola Virginia		N.D.	A.B. 1943, The George Washington University	
Abrahams, Ruth		N.Y.	Adcock, William Howard	D.C.
Abrahams, William Henry		D.C.	Addabbo, John James	N.Y.
Abrahams, Joseph Labe		D.C.	Addison, Francis Girault	D.C.
Abraham, Charles		N.Y.	B.S. 1947, Washington and Lee University	
Abraham, Harry Arthur		N.J.	Addison, Mary Cary	D.C.
Abraham, Donald		D.C.	A.B. 1944, Westhampton College	
Abrams, Edwin Fred		D.C.	Adelson, Charles Edward	Calif.
Abrams, G. Doris		N.Y.	Adelson, Morton Jackson	N.Y.
B.S. 1941, Queens College			Adelson, Norman Pershing	Mass.
Abrams, Isaac Nathan		D.C.	B.S. 1941, University of Alabama	
Abrams, Israel Jacob		D.C.	Aderhold, Leon Wyatt	Tex.
Abrams, Morris Melvin		D.C.	A.B. 1940, Baylor University	
Abrams, Philip Earle		D.C.	A.M. 1946, Tufts College	
Abrams, Yelena Hillel		D.C.	Adkins, Hobson Lee	N.C.
Abrams, Yelena Marcia		D.C.	Adkisson, Hubert Keith	Wash.
Abramson, Aaron		N.Y.		



Adkisson, Kathryn Eloise	Ill.	Albright, Eugene Talbert, Jr.	D.C.
A.B. 1937, University of Illinois		A.B. 1947, The George Washington University	
Adkisson, Lisa Janice	D.C.	Albright, George Martin	Md.
Adler, Alexander	D.C.	Albright, Claude	El Salvador
Adler, Allen	D.C.	Alexander, Arthur Walton	Va.
Adler, Irving	D.C.	Alexander, Ross E.	Tenn.
B.S. 1929, New York University		A.B. 1927, Cumberland University	
Adler, Ruvim and Harold	N.Y.	Alexander, Harold Bell	D.C.
Adams, Ray Edward	Ill.	Alexander, John William	Md.
Adams, Peter A.	Hawaii	A.B. 1947, The George Washington University	
A.B. 1944, University of Hawaii		Alexander, Mary Mitchell	Md.
Ady, John Hamilton	Md.	B.S. 1932, Oklahoma Agricultural and Mechanical College	
Adem, LeRoy P.	Va.	M.S. 1945, University of Michigan	
Adler, Harry Jerome	Calif.	Alexander, Ronald M. Kenzie	D.C.
A.B. 1949, University of Southern California		Alexander, Roy Maholen	Pa.
Agaroff, Theodore Daniel	Conn.	L.L.B. 1941, National University	
Ayer, J. L. Albert	D.C.	Alexander, Vernon DeLoeworth	N.C.
Ayer, Frank	Puerto Rico	Alexander, Virginia Ellen	Tex.
Ayer, Sally Ann	D.C.	A.B. 1943, Texas State College for Women	
Azer, Peter Van Allen	Calif.	Alexis, Everett Crispin	D.C.
Auer, Henry Anthony	Pa.	Alford, Virginia	S.C.
Althoff, George Samuel	Ill.	Alger, Stanley Ann	D.C.
Anders, Abraham	Ill.	Alger, Kent DeVall	Md.
A.B. 1944, University of Chicago		A.B. 1948, L.L.B. 1950, The George Washington University	
Aiken, Bernard	Md.	Albion, Daniel	Md.
Aiken, Fred Wright	Mass.	Alford, Lewis Gilbert	Md.
Aiken, John H.	D.C.	Alford, Arthur	D.C.
Aiken, Warren Raymond	Va.	Allen, Theodore Henry	D.C.
A.B. 1948, Heidelberg College		A.B. 1947, The George Washington University	
Aiken, William David	D.C.	Allen, Allen Groves	Pa.
Aikman, Edward	D.C.	Allen, Betty Frances	Calif.
Ailes, Curtis, Jr.	Va.	Allen, Charles R. Sabin, Jr.	D.C.
B.E.E. 1941, Ohio State University		B.S. 4, Apr. 1944, Pennsylvania State College	
Ailes, John William	Calif.	Allen, Donald Emerson	D.C.
A.B. 1943, United States Naval Academy		A.B. 1949, A.M. 1940, Ohio State University	
Anley, James Edward, Jr.	D.C.	Allen, Thomas Vial	D.C.
Alexander, Barbara Anne	Ill.	Allen, Dwight L.	Tex.
Alexander, Robert Price	Mass.	A.B. 1940, Texas Christian University	
Alexander, Margaret Carlson	Va.	Allen, Ellen Denney	Md.
Akins, Frank Philip	Va.	A.B. 1938, University of Maryland	
Alford, Ellen Rueda	D.C.	Allen, Georgia Stapleton	Miss.
A.B. 1940, Barnard College		B.S. 1942, Baylor University	
A.M. 1947, School of Advanced International Studies		Allen, Jacqueline	Md.
Alawine, Alvin Jackson	Miss.	Allen, James Arden	Va.
Albino, Eugene	D.C.	Allen, James Brown	Utah
Alban, Paul Henry	Md.	Allen, James Victor	Tex.
Albany, Helen Elizabeth	Pa.	B.B.A. 1947, Texas Technological College	
Albera, Rudolph Carlo	Conn.	Allen, John B.	D.C.
Albers, Arthur Victor	D.C.	Allen, John Michael	N.Y.
Albers, Patricia Marie	D.C.	Allen, Jonathan H.	Tenn.
Albert, Irvin R.	D.C.	Allen, Lucretia G.	Va.
A.B. 1940, The George Washington University		Allen, Margaret Elizabeth	Pa.
Albert, James Roger	Va.	Allen, Mary Daratha	Va.
Albert, Leonard Edwin	Md.	Allen, Mildred Coppene	Va.
Albert, Patricia Louise	S.D.	A.B. 1947, The George Washington University	
Albert, Sidney William	Md.	Allen, Nancy Jane	Md.
Albertson, Arthur Grant	Utah	Allen, Patricia	Okla.
Albertson, Clayton Maurice	N.D.	B.S. 1941, Northeastern State College	
Albertson, John Farthing	D.C.	Allen, Patricia Terry	Va.
Albertson, James Edwin	D.C.	Allen, Ramona	Calif.
Albright, Violet Zulme	D.C.	Allen, Ronald Alfred	D.C.
Albright, Frank Glenn	W.Va.	Allen, Roland Dean	Idaho
Albright, Pezanne Lucas	Kans.		
Alb, Robert Oliver	Va.		
Albin, Jesse Merrill	D.C.		
Albers, Wilbur Stanley	Va.		
Albizer, Carlton Evans	N.C.		

Allen, Rosemarie	D.C.	Anderson, Robert H. Hage	D.C.
A.B. 1947, McGill University		Anderson, Mabel Healy	Pa.
Allen, Sylvia D. Grayson	Va.	Anderson, M. L. Hage	D.C.
B.S. 1947, State Teachers College,		Anderson, Marjorie B.	D.C.
Farmville, Va.		Anderson, Frank Ward, Jr.	Md.
Allen, Thomas Franklin	Ohio	Anderson, George Zakarias	Va.
Allen, Thomas Howard	D.C.	Anderson, Evelyn Violet	Nebr.
Allen, Thomas Keith	Kans.	Anderson, Muriel DeWitt, Jr.	Md.
Allen, Wade Lee	D.C.	B.S. 1947, The George Washington	
Allen, Wynmar Triplett	D.C.	University	
Almeyer, Bird Jacqueline	Md.	Anderson, Bonnie Gladys	Nebr.
Alley, Victor	D.C.	Anderson, Bowman Cowne	Va.
A.B. 1947, The George Washington		A.B. 1946, The George Washington	
University		University	
Alley, Edith	N.C.	Anderson, Carl Robert	Pa.
B.S. 1948, Western Carolina Teachers		Anderson, Carl William	Mass.
College		A.B. 1947, University of Vermont	
Allinger, Dorothy Ann	Md.	Anderson, Charles Carter	Calif.
Allison, Catherine Elizabeth	D.C.	B.S. 1946, United States Naval	
Allison, Charles Henry	D.C.	Academy	
Allison, Harriet	D.C.	M.S. 1948, Columbia University	
Allison, Joseph Peter	N.Y.	Anderson, David Andrew	Minn.
Allison, Mary Ellen	D.C.	Anderson, Donald James	Pa.
Allison, William	D.C.	Anderson, Earl Edward	D.C.
Almon, William Butterworth	Va.	B.S. 1947, West Virginia University	
A.B. 1947, Gettysburg College		Almon, Thomas Sherry, Jr.	Va.
Allman, William D. Matthews	D.C.	Almon, George D.	S.C.
Allright, Ralph Barclay	D.C.	Almon, Geraldine Elizabeth	D.C.
Allhouse, Lucene Ella	Ill.	Almon, Helen Margaret	Md.
Allmark, John William	Ind.	Almon, Henry Gay	Va.
Allmon, Verdel Astorides	D.C.	Almon, Lily George	N.Y.
Almo, Dewey Johnson, Jr.	Md.	Almon, Joseph Leach	S.C.
Almo, Helen	Md.	Almon, Kenneth Arthur	Ill.
Almor, Jacob	D.C.	Almon, Loretta May	Va.
A.B. 1947, The George Washington		Almon, Martin	D.C.
University		Almon, Merion Rae	S.D.
Alper, Ralph Asher	Md.	Almon, Noble Carr	D.C.
B.S. 1943, M.S. 1945, The George		A.B. 1943, The George Washington	
Washington University		University	
Alshouse, Jack R.	D.C.	Anderson, Nels Ames	D.C.
Alt, Elizabeth Robert Herbert	N.Y.	Anderson, Orla Ray	Okla.
Alt, John Luther	N.Y.	Anderson, Paul Earl	Va.
Altman, Coleman Parker	D.C.	Anderson, Robert Banks	Mo.
Altman, Norman Seymour	N.Y.	Anderson, Robert Leigh	Va.
B.M.F. 1947, New York University		Anderson, Robert Reynolds, Jr.	Va.
Altman, Seymour S.	N.Y.	B.S. 1943, University of Richmond	
B.F.E. 1944, College of the City of		Anderson, Stephen Fox, Jr.	D.C.
New York		Anderson, Thomas William	Va.
Altman, Vera Pearl	D.C.	Anderson, Warren Chaplin	D.C.
Altman, Andrew Taylor	D.C.	Anderson, Warren Russell	D.C.
B.S. 1941, University of Maryland		Anderson, William Abbott	Iowa
Altman, Robert Carl	D.C.	Anderson, William Henry, Jr.	D.C.
Altman, Eugene	N.J.	Anderson, William Walter	Ill.
Altman, Oscar	Va.	Anderson, William Bruce	D.C.
Alvey, Ernest Brandon	D.C.	Alpert, Elias William	D.C.
Alvey, Paul Robert	Va.	Alpert, Bernard Masius	Calif.
Alvin, Oscar Rudolf	Va.	Alpert, Betty Louise	Tex.
Alward, Charles Halbert, Jr.	Va.	Alpert, Fred Samuel	Va.
Alward, Marion	D.C.	Alpert, Martin Joseph	Calif.
Alward, Edward Ambrose	Pa.	Andrews, Abner Lyell	N.Y.
Amersbach, Youngswott	Sam.	Andrews, Alphonse Michael	Mass.
A.B. 1945, University of Sam		Andrews, Arthur Vincent	Mass.
Amersbach, L. Ray	D.C.	Andrews, Derrell Finnet	Md.
Ames, Robert Warren	Ill.	Andrews, Frank Joseph	Pa.
Ames, George Chester	Md.	Andrews, Lee Victor	D.C.
B.S. 1947, The George Washington		Andrews, Norman Jacob	Kv.
University		Andrews, Robert Bruce	Mass.
Ambrose, Homer	D.C.	Andrews, Timothy Louise	R.I.
Ambrose, Aubrey	D.C.	A.B. 1949, The George Washington	
Amer, Ronald Percival	Calif.	University	
A.B. 1942, Cornell University		Andrews, William Milton	Fla.
Ames, Frances Antoinette	Va.	Andrich, Dan J.	Minn.
Ames, Katherine	D.C.		

Arnold, Grover LaMar	Md.	Arnold, Lillian Arden	Ohio
A.B. 1922, Hope Point College		A.B. 1921, I. L. B. 1940, Ohio State University	
A.M. 1946, The George Washington University		Arnold, Walter LeRoy	D.C.
Arnold, Jerry Lewis	N.Y.	Arnold, A. B. Jr.	Tex.
Arnold, William LeRoy, Jr.	Va.	Arnold, Marion Monk	D.C.
Arnold, James George	D.C.	A.B. 1911, 1915, Morehead State Teachers College	
Arnold, John Joseph	Mass.	Arnold, Anthony Allen	Md.
Arnold, Delbert Ross	D.C.	A.B. 1922, Franklin	S.C.
Arnold, Patricia Wilson	Va.	Arnold, Joseph	Va.
Arnold, Margaret Catherine	Pa.	Arnold, Mary Ann	Va.
Arnold, Arthur	Md.	Arnold, M. A. H. H.	Ga.
Arnold, Harold	N.Y.	A.B. 1941, The George Washington University	
A.B. 1922, Brooklyn College		Arnold, Oswald Dale	Md.
Arnold, Norman	N.Y.	Arnold, Richard Franklin	D.C.
Arnold, James Cole	Ga.	Arnold, Scott	D.C.
Arnold, Barbara Jean	D.C.	Arnold, Rose Mary	N.H.
Arnold, Arnold John	Va.	Arnold, Nellie	D.C.
Arnold, Ruth Martha	Iowa	A.B. 1922, Hunter College	
Arnold, Frances Anthony	D.C.	Arnold, Sylvia Bernard	D.C.
Arnold, Gilda Grace	Puerto Rico	Arnold, Alma Arace	Ohio
Arnold, Alexander	D.C.	Arnold, Samuel, Jr.	Brail
Arnold, John	N.Y.	Arnold, Collins	Md.
Arnold, Harry Emanuel, Jr.	Va.	Arnold, Eugene	N.Y.
A.B. 1928, Lafayette College		A.B. 1927, Hunter College	
Arnold, Herbert Lewis	D.C.	Arnold, George	D.C.
Arnold, Alexander Gordon	Tex.	Arnold, Lester Maxwell	Va.
B.S. 1921, New Mexico College of Agriculture and Mechanic Arts		Arnold, James Nook	Ohio
App, George L.	Wis.	Arnold, Joseph R. R.	Ind.
Appel, Charles Andrew III	D.C.	B.S. 1927, Purdue University	
Appel, David	D.C.	Appel, Paul Stefan	Utah
Appel, Edward Patrick	N.I.	Appel, Eugene Jerome	P.C.
Appel, Lois Nevin	Md.	Appel, Louis Michael	D.C.
A.B. 1922, University of Michigan		Asby, Homer F.	D.C.
Appel, George Horace, Jr.	D.C.	B.S. 1927, Northwestern University	
Appel, George Stanley, Sr.	D.C.	A.B. 1922, William Jewell	W.Va.
Appel, James Scott	D.C.	Appel, Dorothy Lee	D.C.
A.B. 1921, University of Arizona		Appel, Katherine Jean	Fla.
Appel, Edward Kenneth	Pa.	Appel, George	Va.
Appel, Robert Lester	Md.	Appel, Louis Oliver	Va.
Appel, George Alexander	Md.	Appel, Sydney Solomon, Jr.	
Appel, Robert Marshall	Md.	B.S. 1927, I. L. B. 1926, University of Pennsylvania	
Appel, Herbert Edward	Ohio	Appel, David Stewart	Va.
Appel, Norman	Brail	B.S. 1922, Massachusetts Institute of Technology	
Appel, Robert Anthony	Puerto Rico	Appel, Charles Delbach	D.C.
Appel, Ralph	D.C.	A.B. 1928, Howard University	
Appel, Gerald	D.C.	Appel, George George	D.C.
Appel, Robert Anthony	N.Y.	Appel, Patricia Sue	Kan.
Appel, Fred, Edward	Pa.	Appel, Robert Alexander	Miss.
Appel, Robert Edward	Va.	A.B. 1922, The George Washington University	
Appel, Robert, Jr.	N.Y.	Appel, William Robert	Md.
Appel, Anthony Emmanuel	D.C.	Appel, William Frederick	S.C.
Appel, Louis	Pa.	A.B. 1927, University of South Carolina	
Appel, Rita Sales	D.C.	Appel, S. Gertrude	D.C.
Appel, Louis L.	N.Y.	Appel, N. A.	Wash.
B.S. 1922, Bradley College		Appel, H. B. 1927, National University	
Appel, Charles Francis	Va.	Appel, Louis, Jr.	Va.
A.B. 1928, The George Washington University		Appel, Katherine Mary	D.C.
Appel, John Lee	D.C.	Appel, John, Jr.	D.C.
Appel, James Marx	Va.	Appel, John Constantine	D.C.
B.S. 1926, College of William and Mary		Appel, John, Jr.	D.C.
Appel, Margaret Gwendolyn	Va.	Appel, Edward Fred	D.C.
A.B. 1922, Stanford University		Appel, Greta Ruth	D.C.
A.M. 1934, The George Washington University		Appel, Charles Fred	Va.
Armstrong, Warren Laine	Pa.	Appel, Fred Karlsson	D.C.
A.B. 1941, University of Ohio		B.S. 1928, Carnegie Institute of Technology	
Armstrong, Woodrow J.	Okla.	A.M. 1943, Western Reserve University	



Atkinson, Roderick Dhu	D.C.	Aynes, Edith Annette	Md.
Atkisson, Arthur Albert	Oreg.	Ayre, Agnes	D.C.
Au, Carl Warren	D.C.		
Aucremann, Francis Henderson	Fla.	B	
B.S. in B.A. 1943, University of Florida		Babb, Eugene Campbell	Va.
M.S. 1947, Columbia University		Babcock, Margaret Shippen	D.C.
Aughterton, Thomas George	Md.	Baker, James Clyde	Ark.
August, Frank Joseph	D.C.	Bacchus, Habeeb	British Guiana
B.S. 1943, A.M. 1947, The George Washington University		B.S. 1947, Howard University	
August, Robert Lee	Va.	Bach, Emily Frances	N.Y.
Augustine, James Julian	Ill.	Bachman, Helen	D.C.
Auld, Richard McGuire	Md.	Bacon, James Everett, Jr.	Md.
B.S. in S.S. 1943, Georgetown University		Bacon, Lorraine Graham	D.C.
Aull, Roscoe Sease, Jr.	D.C.	Bacon, Robert Louis	Va.
A.B. 1947, University of Richmond		Baczek, Dorothy	D.C.
Avit, John Miller	Pa.	Badanes, William Louis	Va.
Avitia, Anthony Augustine	D.C.	Badger, Donald Gibson	Australia
Avitia, Bernard Louis	S.C.	B.S. 1947, University of Adelaide	
B.S. 1944, United States Naval Academy		Badger, Henry Glenn	Ind.
Avitia, Conrad Wayne	N.C.	A.B. 1947, De Pauw University	
Austin, Clara Virginia	Va.	A.M. 1945, Indiana University	
Austin, Dean Mendis	Idaho	Badt, Lois M.	D.C.
Austin, Martin Louise	N.J.	Baer, Daniel Robert	D.C.
B.S. 1944, New York University		Baer, George Franklin	D.C.
Austin, Ralph Raymond	D.C.	Bagby, Mary Lawton	Md.
B.C.S. 1941, M.C.S. 1944, Southwestern University		A.B. 1945, The George Washington University	
Austin, Robert Kenneth	D.C.	Bagdon, Vincent Joseph	Mich.
Austin, Roland M.	D.C.	Baig, Isabel Jane	W. Va.
Autio, William Arthur	Wis.	Bagley, David	Conn.
B.E.E. 1946, University of Wisconsin		Bain, Alice Florence	Va.
Avit, Carl Edward	W.Va.	Baker, Edmund Felix	Md.
A.B. 1945, Berea College		Baker, Arthur Duncan, Jr.	D.C.
Avancena, Dorothy Mae	D.C.	Baker, Arthur William	D.C.
Avancena, Marnet Claude	D.C.	Baker, Bertha James	Va.
Avanzo-Vidal, Juan	Puerto Rico	Baker, Charles Robert	Va.
B.S. 1946, University of Puerto Rico		Baker, Dennis Martin	N.C.
Avery, Lillian	S.D.	Baker, Joseph Fortune	Tenn.
A.B. 1945, Carleton College		Baker, Lydia Alberta	Miss.
Aversa, Angela Albert	N.Y.	Baker, Margaret Allison	Mo. & C.
Avery, John Lawrence	D.C.	Baker, Margaret Louise	D.C.
B.S. 1947, University of Maryland		Baker, Leonard William	R.I.
M.S. 1949, The George Washington University		B.S. 1947, United States Naval Academy	
Avner, Zola Siller	N.Y.	Baker, Road Turner	Md.
Awalt, Gilbert Haslop	D.C.	A.B. 1942, University of Maryland	
Awramk, Joseph, Jr.	D.C.	Bailey, Richard Lake	Md.
Awrey, Robert Alair	Ga.	Bailey, Walter, Jr.	D.C.
B.S. 1946, United States Naval Academy		Bailey, William Alfred	Tex.
Avtry, Dolan	D.C.	Bailey, William Harris	D.C.
Avtrial, Arthur	N.Y.	Bailey, Wilma Alethea	Pa.
Avtrial, Benjamin M.	Va.	B.S. in Ed. 1944, State Teachers College, California, Pa.	
B.E.E. 1945, M.S. 1954, University of Minnesota		Bailey, Wilma Blanche	D.C.
Avtryman, George Armand	Md.	Bauman, Jerome	N.Y.
Ave, Ralph Clayton	D.C.	Bain, Cindy	D.C.
M.S. 1941, Northwestern University		Bain, Robert Francis	N.Y.
Avers, Jesse Elizabeth	Ill.	Baker, Dorothy	N.Y.
A.B. 1946, The George Washington University		Bair, William Benton	Pa.
Avera, Merle Truman	Va.	Baird, Glenn Dean	D.C.
Ayers, Theodore Alex	D.C.	B.S. 1944, University of Oregon	
A.B. 1941, University of Virginia		Baird, Keith Dwight	Colo.
Ayers, William Glenn	Pa.	Baise, Thomas Gray, Jr.	D.C.
Aylward, Patricia Helen	Maine	Baumgartner, Grace C.	D.C.
Aymar, Frances Louise	D.C.	Benz, Edward Henry	D.C.
A.B. 1926, Beaver College		Baudis, Marie Franque	D.C.
		Baker, Agnes Elizabeth Adams	D.C.
		Baker, Allan Wesley	D.C.
		B.B.A. 1946, University of Texas	
		Baker, Annette Cinn	D.C.
		B.S. in Ed. 1949, New York State Teachers College	
		Baker, Charles Jewell	D.C.



Baker, Constance	D.C.	Balinger, Helen J.	D.C.
Baker, Daniel Duane	Md.	Barringer, John Carter	D.C.
Baker, David William	Md.	Barrington, John Frank	D.C.
B.S. 1943, University of Maryland		Barnes, Glen Handy	Va.
Baker, Donald Carroll	D.C.	Barnes, Harry Arnold	Va.
Baker, Donald Lawrence	Calif.	Bardemas, Bessie	D.C.
Baker, Dorotica Anna	Mass.	Barnes, Miss Joseph	Pa.
Baker, Gloria Jeannette	D.C.	Barnes, Alfred Joseph	D.C.
Baker, Glynn Winfield	Va.	Barnes, Clayton Paul	Ind.
Baker, Guy Francis	Md.	Barnes, Dorothy Theresa	Va.
Baker, Harold Fred	N.Y.	Barnes, Eugene Marshall	D.C.
Baker, Harold Leon	Tenn.	Barnes, David Henry	Pa.
Baker, Harrison Hayward	Conn.	Barnes, Philip Prescote	D.C.
Baker, Harry LeRoy	Okla.	A.B. 1945, The George Washington University	
A.B. 1947, The George Washington University		Barnes, Raymond Isaac	D.C.
Baker, Jack	D.C.	A.B. 1945, The George Washington University	
Baker, Louis Robert	D.C.	Barnes, Dorothy Louise	Va.
B.S. in Ed. 1940, State Teachers College, Superior, Wis.		Barnes, Jack Miles	D.C.
Baker, Marion	Ky.	Barnes, Bessie Iona	Md.
Baker, William Helen	Md.	Barnes, Virginia Lee	Md.
Baker, Stanley Cecil	W.Va.	Barnes, Eleanor Barbara	Vt.
Baker, Thomas Lockerbie	D.C.	Barker, Robert Darrell	Calif.
Baker, Virginia	D.C.	Barker, Sally Bower	Calif.
A.B. 1944, The George Washington University		Barnes, Andrew	Pa.
A.M. 1945, Johns Hopkins University	Pa.	Barnes, Melvin	D.C.
Baker, William Lee	Md.	Barker, Paul Herbert	D.C.
Baker, Warren Stanton	Va.	A.B. 1941, University of Michigan	
Baker, William Albert, Jr.	D.C.	Barnowsky, Clarence James, Jr.	D.C.
Baker, William Chilton	Ill.	Barnes, Bruce MacDonald	Pa.
Baker, William Harold	Md.	A.B. 1939, Allegheny College	
Baker, Norris Corney, Jr.	N.I.	Barnes, Mac G. Lester	D.C.
A.B. 1944, Colorado College	Pa.	Barnes, Edward Francis	N.Y.
Baker, William F. Thomas	D.C.	A.B. 1947, Syracuse University	
Baldwin, Basil Charles	D.C.	Barker, Avon Barton, Jr.	D.C.
Baldwin, Charles David	D.C.	Barker, Avon Thomas	Pa.
B.B.A. 1947, College of the City of New York		B.S. 1931, Savannah University	Ga.
Baldwin, Albert Alphonso	D.C.	Barker, Dennis R. Lee	
B.S. 1947, University of Pennsylvania	Md.	B.B.A. 1947, University of Georgia	
Baldwin, Robert W. Wood	Pa.	M.B.A. 1947, Harvard University	
Baldessari, Irvin William	D.C.	Barker, Godfrey Thomas	D.C.
Baldin, Eugenia Henrietta	Mass.	A.B. 1931, Williams College	
Baldin, Thomas Graham	Md.	M.B.A. 1943, Harvard University	
Baldridge, Reid	Va.	Barker, John Raymond, Jr.	Calif.
Baldwin, Franklin Hunter	D.C.	A.B. 1941, Williams College	
Baldwin, Linn Raymond	D.C.	Barker, Max Maxwell	D.C.
B.S. 1943, University of South Carolina		Barker, Arthur Frederick	D.C.
Baldwin, Margaret Lois	D.C.	Barker, William James	D.C.
Baldwin, Robert Buckingham	N.I.	Bard, Barbara Ann	Pa.
Baldwin, William Augustus	N.I.	A.B. 1944, Allegheny College	
Baldwin, William R. Bert	D.C.	Bardach, Henry G.	N.Y.
Baldwin, Dossie Hamilton	D.C.	Barnes, Marion Jean	Panama
Baldwin, Vivian Cotton	D.C.	Barnes, Frank	D.C.
Baldner, Richard King	Va.	Barker, Benjamin	D.C.
Bald, Barbara Marie	Va.	A.B. 1947, The George Washington University	
Ball, Charles Emmet	D.C.	Barker, Richard Fowler	Md.
Ball, Joseph James	D.C.	Barnes, Albert Frederick	D.C.
Ball, Kenneth, Jr.	D.C.	Barnes, Timothy George	N.M.
Ball, Marilyn Alice	S.C.	Barnes, Joseph Frances	D.C.
B.S. 1944, University of South Carolina	Pa.	B.S. 1947, Pennsylvania State College	
Balla, M. Luc Philip	D.C.	Barnes, Rex	D.C.
Balla, Richard August	D.C.	B.S. in E.E. 1946, Illinois Institute of Technology	
Balbir, Carl Clave	Ohio	Barker, Richard Gladys	Minn.
Balbir, Dorothy Anne	Wash.	Barker, Bessie Jeanne	D.C.
A.B. 1944, Whitman College		Barker, Ernest Lester	N.Y.
Balbir, Edwin Robert	Wash.	Barker, Paul Thomas	D.C.
A.B. 1944, Whitman College		Barker, Roy Winford	D.C.
Balbir, Wesley Allan	Va.	Barker, Richard Earle	Md.
Balbir, Frances Paul, Jr.	D.C.	Barker, Gilbert Donald	D.C.

Barkman, William Ernest	D.C.	Barry, John Patrick	D.C.
A.B. in Ed. 1926, A.M. 1927, LL.B. 1928, The George Washington University		Barry, Robert Ingram	D.C.
Barkow, Mearl Marietta	Minn.	Barry, Thomas A.	Pa.
Barlow, Herbert Bartlett, Jr.	R.I.	Barse, Lilyon Georgia	D.C.
B.S. in E.E. 1945, Brown University		Barnard, Elora Marie	D.C.
Barlow, Myron Ford	D.C.	Barnes, Albrecht Paul	Md.
B.S. 1935, M.S. 1936, University of Utah		Barnes, Cynd	Va.
Barlow, Stanley	Mass.	Barnum, David	D.C.
Barnes, Virginia Lee	Md.	Bartch, Carl Edward	Ohio
Barnes, Martha Holmes	D.C.	A.B. 1947, The George Washington University	
Barnard, Priscilla Doris	N.H.	Bartell, Henry John	Mass.
B.S. 1944, University of New Hampshire		Bartels, William John	N.Y.
Bartiss, David Roof	Ariz.	Bartik, Richard	N.J.
Bartiss, Frank Oakes	Md.	Bartkowski, Florence	Ohio
Bartiss, Helen Louise	D.C.	Bartlett, Dorsey Joseph	W.Va.
Bartiss, Jeanne Louise	Va.	Bartlett, Edmund, Jr.	Calif.
Bartiss, Kenneth Clark	N.C.	Bartlett, Eugene Lucille	D.C.
Bartiss, Kyle Dalton	Ala.	Bartlett, Milton Delano	Mass.
Bartiss, Snell Gordon	Ill.	B.S. 1947, Worcester Polytechnic Institute	
Bartiss, Stanley Matland	Mass.	Bartlett, William Hugh	Va.
B.S. 1934, United States Naval Academy		Barton, Mary Welsh	Md.
Barnet, Frederick Robert	Md.	A.B. 1927, Grinnell College	
B.S. 1942, University of Washington		Barton, Robert Wharton	N.H.
Barnett, Abby Joy	N.Y.	Barton, Victor Eugene	Va.
Barnett, Charles Maxwell	Calif.	Barton, William Jacob, Jr.	Md.
Barnett, Robert Alexander	Md.	Bartsh, Blanche Josephine	D.C.
Barnett, Oliver	Pa.	B.S. 1943, West Teachers College	
Barnhart, Arthur Gooding	D.C.	Bartsh, Margaret Lucille	N.Y.
Barnhart, C. Paul	Md.	B.S. 1945, College of the City of New York	
A.B. 1939, Lebanon Valley College		Barwick, Joel Richard	Md.
M.S. in Ed. 1944, University of Maryland		Barzlay, Cyndie	D.C.
Barnhart, Lois Ann	Mo.	A.B. 1946, New York University	
A.B. 1946, Central College		Basarab, Stephen	Pa.
Barnes, Richard S.	Va.	Basham, Frances Alma	Va.
Barnes, David C. Baker	Va.	Basham, Anthony Stephen	Pa.
Barnes, George Stanley	D.C.	Baskin, Robert E.	Va.
Barr, Elizabeth Elvira	Nebr.	Baskin, William Maxwell	Va.
B.S. in Ed. 1941, University of Nebraska		Bass, Charles Ann	D.C.
Barr, Joseph Frederick	N.J.	Bass, Charles White	Tenn.
Barr, Leonard Delrose	Nebr.	Bass, Marvin William	D.C.
Barr, Samuel Eileen	D.C.	Bassett, Dean Winslow	N.Y.
Bartasso, Joseph Alberto	N.I.	Baxter, Doris Frances	Md.
Bartett, Annabel Lombard	D.C.	B.S. 1943, Ohio State University	
A.B. 1927, Barnard College		Basson, David Charles	D.C.
Bartlett, Beverly Mae	D.C.	A.B. 1945, University of Maryland	
Bartlett, Charles James, Jr.	D.C.	Bartov, Andrew Berthe	Belgium
Bartlett, James Martin	D.C.	Bartov, David Albert	Mass.
Bartlett, Margaret Judith	D.C.	Bartov, Henry Dutton	Va.
Bartlett, Mary Frances	D.C.	Bartov, L.R. Edworth	Va.
A.B. 1926, West Virginia University		Bartov, Lora Charles	Md.
A.M. 1927, Columbia University		Bartov, William Raphael	D.C.
Bartok, Ralph Donald	D.C.	Bartov, Mary	Ky.
Bartov, Frances Elizabeth	D.C.	A.B. 1947, Western State Teachers College, Ky.	
Bartov, Nora Ann	Pa.	Bartov, Frederick LeRoy	D.C.
B.S. 1947, State Teachers College, East Stroudsburg, Pa.		Bartov, George Byron	Pa.
Bartov, William John	Pa.	Bartov, L.S. Mc Morgan	Ariz.
B.S. 1946, State Teachers College, East Stroudsburg, Pa.		Bartov, Stella S.	Pa.
Bartov, Paul Jeanne	D.C.	Bates, Ward Pettleton	D.C.
Bartov, Charles Arnold	D.C.	A.B. 1942, Teachers College	
Bartov, Sarah Jane	Md.	Bates, Alex Flambeth	Mich.
Barry, Frances Helen	D.C.	A.B. 1946, Antioch College	
A.B. 1944, Danburton College of the Holy Cross		Bates, Thomas Overton	D.C.
		Bates, Lora Jean	Ohio
		Bates, Elizabeth Ragsdale	Md.
		Bates, Lora, Charlotte, Jr.	Mt.
		Bathory, Joseph Patrick	D.C.
		Bathory, Josephine	N.Y.
		Bathory, Beverly Anne	Va.
		Batson, Clifton Jenks	N.C.

Batson, Donald Purdy	D.C.	Beall, Mary Louise	Va.
Batson, Richard Traver	D.C.	Beall, Viola L.	Va.
B.S. 1944, United States Military Academy		Beall, George Frederick	Tex.
Battley, Jean Anderson	D.C.	Beall, Hester Mae	Mont.
Battle, Frederick Hugh, Jr.	Va.	Beall, Ada	Mo.
Baty, Francis Dindbar	D.C.	B.S. 1935, Southwest Missouri State Teachers College	D.C.
B.S. in B.A. 1926, University of Kansas		Beall, Doris Fern	Va.
Bauer, I. Donald	Mo.	Beall, Robert Henry	Ark.
B.E.E. 1946, Johns Hopkins University		Beall, Eugene Oswald	Mo.
Bauer, Hugh Bernard	D.C.	Beall, Walter Harvey	N.Y.
Bauer, Jerome	N.Y.	Beall, John Henry	Mont.
Bauer, John T.	Va.	Beall, Paul Wynn	Tex.
Bauer, Mary Graybill	Mo.	Beall, Percy M. Marice	Va.
Bauer, John R. George William, Jr.	D.C.	Beall, Lou Lee	
Bauer, John Mary Ouel	D.C.	A.B. 1946, Lips University	
Bauer, Betty Louise	Mo.	M.S. 1942, University of Oklahoma	Va.
Bausch, William Cooper, Jr.	Va.	Beall, Mary Jane	D.C.
B.S. in Com. 1942, University of Virginia		Beall, Edward James	D.C.
Baxter, Paul Everett	D.C.	Beall, Anna Mae	D.C.
Baxter, Ralph Lindsay	D.C.	Beall, Robert Ben	Va.
Baxter, Stanley Harold	D.C.	Beall, Helen Barton	D.C.
Baxter, Carl Robert	S.D.	Beall, Lisa Ruth	Va.
Baxter, Carl P.	Va.	Beall, Richard Woodland	Pa.
Baxter, Louise Morris	D.C.	Beall, Virginia LeRoy	Cal.
Baxter, Joe Lee, Jr.	N.Y.	Beall, Joseph Lewis LeRoy	
Baxter, Charles Spaul	Va.	B.S. 1942, University of Illinois	R.I.
Baxter, Dorothy Clate	D.C.	B.S. 1942, Lips University	
Baxter, Edward	N.Y.	Beall, Charles Rawlinson, Jr.	Mo.
Baxter, Jane Marie	D.C.	Beall, Arthur	Va.
Baxter, Robert Cade	Va.	Beall, John Andrew	D.C.
Baxter, Patricia Miles	Va.	Beall, Virginia Lee	D.C.
B.S. in E.E. 1943, Virginia Polytechnic Institute		Beall, Lewis Kasper	D.C.
Beck, Walter, Russell Howard	I.C.	B.S. 1944, United States Military Academy	
Beck, William James	N.Y.	Beall, Carl Joseph	Ill.
Beck, William Stephen Harvey	D.C.	Beck, Arthur Francis	Va.
Beck, Richard Albert	Pa.	Beck, Catherine Jeanette	Va.
B.S. 1942, Fort Valley College		B.S. in Ed. 1943, Wilson Teachers College	
Beck, Charles William	D.C.	Beck, Edward Arthur	N.Y.
Beck, Donald Eugene	Mo.	Beck, George Edward	D.C.
Beck, Edward Theodore	Kans.	Beck, Helen Marie	D.C.
Beck, Alexander Leith	Va.	F.S. 1942, Texas Christian University	
Beck, Mary Jane	D.C.	Beck, Hugo Marshall	D.C.
Beck, Paul George El	Ill.	Beck, John Marshall	N.Y.
Beck, George	D.C.	Ph.D. 1941, Brooklyn Law School	
A.B. 1941, Brooklyn College		Beck, Joe William	Pa.
Beck, John B. Walter	Mo.	Beck, Mary Elizabeth	Va.
Beck, Walter George	Tex.	Beck, Patricia Elizabeth	Mo.
Beck, Walter Lewis	Pa.	Beck, Susan Jean	N.C.
Beck, Bruce Herbert	Mo.	F.S. in Ed. 1943, Cananda College	
Beck, Ronald Norman	N.I.	Beck, Vera Anne	D.C.
Beck, Walter Robert	Mo.	Beck, Arthur Benson	D.C.
B.S. 1942, University of Maryland		Beck, Thomas Earl	Kans.
Beck, David Carl El	Va.	Beck, Joseph	D.C.
Beck, Paul Dwight	Va.	Beck, Mary Stanley	D.C.
A.B. 1941, Bowdoin College		Beck, Robert Raymond, Jr.	Mo.
Beck, David Eugene	Mo.	Beck, William Henry	Mo.
Beck, George R.	Va.	Beck, Sue W. Hall	Mo.
Beck, Samuel Timothy, Jr.	S.C.	Beck, Susan	D.C.
Beck, Anne Lee	D.C.	Beck, George Walter	N.Y.
A.B. 1941, American University		Beck, Milton Casey	D.C.
Beck, Paul Kaye	Va.	Beck, Donald Larson, Jr.	N.I.
Beck, Pearl Kent	N.	Beck, George Elmer	Mo.
Beck, Ann Hathaway	D.C.	Beck, Herbert Earl	Ill.
Beck, John	D.C.	B.S. 1941, University of Utah	
Beck, Eugene Ann	Ill.	Beck, James Eugene	Pa.
Beck, Harry Spurgeon	Mo.	Beck, Robert Walter	D.C.
Beck, John Norman, Jr.	D.C.	Ph.D. 1941, Cornell University	
		Beck, William Elmer	D.C.
		Beck, William Dew	Va.



Bendler, Edith J.	Md.	Bendish, Rachel Raymond	Was.
A.B. 1922, University of Pennsylvania		B.S. 1927, Central State Teachers College, Seward, Pa.	
Bendler, Mary Tyler	Md.	Bell, Margaret Calhoun	D.C.
Bent, Robert August	Md.	Bell, Robert Arthur	D.C.
Bent, John Douglas	Pa.	Bell, Mabel Gladys	D.C.
Bent, Stephen Lee	N.I.	Bell, Charles Vernon	D.C.
Bent, Howard Thomas	Ohio	Bell, Oliver S.	Md.
Benton, Sidney M. Nell	Va.	A.B. 1918, Wesleyan College	
Bentley, Joseph Thomas	N.Y.	M.S. 1927, Dartmouth College	
A.B. 1920, Fordham University		Bentley, Robert R. J.	D.C.
A.M. 1928, Columbia University		A.B. 1911, Washburn University	
Bentley, Benjamin Franklin	D.C.	Beltz, Jean Margaret	D.C.
Bentley, John Lawrence, Jr.	Md.	Beltz, Joseph Edward	W.Va.
Bentley, Harold Norman	D.C.	Beltz, Edward Charles	Va.
Bentley, Anne Allen	Palestine	B.S. 1936, University of New Hampshire	
Bentley, Charles Frederick	Md.	Bentley, George D. Matthews	Greece
Bentley, Raymond William	D.C.	Bentley, William Carl, Jr.	Pa.
Bentley, Robert Joseph	Va.	Bentley, Robert Silvio	Philippines
Bentley, Martin C.	D.C.	Ph.D. 1935, University of the Philippines	
A.B. 1933, Drury College		Bentley, James Thomas	Ind.
Bentley, Martin	D.C.	Bentley, George Thomas	Md.
Bentley, Christian William, Jr.	D.C.	Bentley, Margaret Ann	D.C.
Bentley, Edward Lewis	D.C.	Bentley, Thomas Reilly	D.C.
Bentley, Steven	N.I.	Bentley, Charles Henry	D.C.
Bentley, Dorothy Louise	D.C.	A.B. 1914, The George Washington University	
Bentley, William Alfred	D.C.	Bentley, Carl Michael	Conn.
Bentley, Bernard Eugene	D.C.	Bent, Jack	D.C.
Bentley, Philip George	N.Y.	Bentley, Harold	Va.
Bentley, Raymond Fulton	D.C.	Bentley, Charles	Va.
Bent, Barbara	D.C.	Bentley, Betty Ruth	D.C.
Bent, Bernard Monroe	D.C.	Bentley, Robert Sordell	D.C.
Bent, Charles William	Va.	A.B. 1912, Atlantic College	
Bent, David Harriet	Va.	Bentley, Vernon F.	N.Y.
Bent, Edward Leroy	Ohio	Bentley, Samuel Leonard	Pa.
B.S. 1916, M.F. 1916, Illinois Institute of Technology		Bent, Hazel Elsie	Maine
Bell, Eda R.	Mass.	A.B. 1917, The George Washington University	
B.S. 1912, Wilson Teachers College		Bentley, Niles Elmer	Ohio
Bell, Ernest Herbert	Va.	Bentley, Joseph Campbell	Va.
Bell, Gerald Howard	D.C.	Bentley, Anne	Ky.
Bell, Ira Vernon	Fla.	Bentley, Anne Ruthland	Va.
A.B. 1929, Florida State College for Women		A.B. 1917, Gustavus College	
Bell, Ivan Frances	Va.	Bentley, Adis Leland	Ind.
Bell, Emma Margaret	D.C.	A.B. 1925, Indiana University	
A.B. 1925, University of California		Bentley, Charles Marshall	D.C.
Bell, Eric Richard	Va.	Bentley, Edward Lewis	D.C.
Bell, Eric Victor	D.C.	Bentley, Elizabeth S.	N.Y.
Bell, Eric Murphy	Okla.	Bentley, Henry Edgar	D.C.
B.S. 1925, University of Oklahoma		Bentley, Henry Allen	Md.
Bell, Joseph Thomas	D.C.	Bentley, Louis K. Carter	Pa.
Bell, Katherine	D.C.	Bentley, Kenneth Carter	Va.
Bell, James Roy	Cal.	Bentley, Kenneth Homer	Ohio
Bell, John Philip	D.C.	Bentley, Mabel I.	Mass.
Bell, Margaret Reilly	Va.	Ph.D. 1927, Northeastern University	
B.S. 1928, Missouri College		Bentley, Marion Grace	Va.
Bell, Mary Ann	D.C.	Bentley, Ralph Berry	D.C.
Bell, Robert Marshall	D.C.	Bentley, Ralph	D.C.
Bell, Walter Edgar, Jr.	D.C.	Bentley, Ross Rusk	Md.
Bell, William Thompson		Bentley, Ralph S.	D.C.
A.B. 1920, Yale University		Bentley, Vincent Leonard	D.C.
Bellak, Joseph Michael	D.C.	Bentley, William T. Jones, Jr.	Ga.
Bellamy, Frederick Joseph	D.C.	A.B. 1911, University of Georgia	
Bellamy, Robert DeLouse	Md.	Bentley, William Franklin	D.C.
Bellamy, Tom	Md.	B.S. 1925, Wilson Teachers College	
A.B. 1929, Southeast Missouri State Teachers College		A.M. 1926, Indiana University	
M.S. 1931, University of Cincinnati		Bentley, Harold Clark	Utah
Bellamy, Donald Matthew	N.M.		
Bellamy, Abraham Philip	D.C.		



*Students Registered*

373

Benson, Arthur Leonard	Id.	Berlesky, Louis	D.C.
A.B. 1911, Lehigh University		Berens, Stanley Louis	D.C.
Benson, Carl Frank	Maine	Berens, Nathan	N.Y.
A.B. 1910, Colby College		B.S. 1915, Brooklyn College	
Benson, George Allen	D.C.	Berens, Thomas	N.Y.
Benson, Joseph M.	Utah	Berens, Jesse Phyllis	D.C.
B.S. 1927, Utah State Agricultural College		Berens, Mary S. Sanford	Va.
Benson, Mary Louise	Va.	Berens, Philip Arthur	Md.
Berens, Mildred	D.C.	Berens, Anne Mae	D.C.
Berens, Paul	N.D.	Berens, Frank	D.C.
B.S.C. 1942, University of North Dakota		Berens, Arthur Henry	Va.
Benson, Virginia B.	Va.	B.S. 1941, United States Naval Academy	
A.B. 1936, College of William and Mary		Berens, William	D.C.
Berens, William Fowell	D.C.	Berens, John Thomas	Pa.
Bentley, Clarence Hagan	D.C.	Berens, Beverly Ruth	D.C.
B.S.C. 1942, Virginia Polytechnic Institute		Berens, Max Omer	D.C.
Bentzer, Alice E.	D.C.	Berens, Louis John	D.C.
Berar, Irene Frances	D.C.	Berens, Louis Conrad	N.Y.
Berens, Richard John	D.C.	Berens, Charles National	D.C.
Berens, Norman Martin	D.C.	B.S. 1936, College of the City of New York	
Berens, William Anthony	D.C.	Berens, Joseph Leonard	D.C.
Berens, William	D.C.	Berens, Joseph	Pa.
Berg, Edwina Robert	Va.	Berens, Louis Bernard	D.C.
Berg, Frank Eugene	Mass.	A.B. 1947, University of Iowa	
Berg, George Louise	Alaska	Berens, Marion June	N.Y.
Berg, Karl Joseph	D.C.	LL.B. 1945, LL.M. 1946, New York University	
Berg, Louis J. Miller	Md.	Berens, Paul	D.C.
Berg, Stanislaus Samuel	D.C.	Berens, Philip Harris	Id.
B.S. 1939, College of the City of New York		Berens, Stanley Paul	Mass.
Berg, William Marston	D.C.	Berens, Homer Wayne	D.C.
Berens, William Jr.	D.C.	A.B. 1945, Harvard University	
Berens, William Sr.	D.C.	Berens, Martin Elmer	D.C.
Berens, Alfred Edward	Va.	Berens, Harold Kay Jr.	Tenn.
B.B.A. 1941, College of the City of New York		Berens, George Constantine	Vt.
Berger, Bernard Nelson	D.C.	Berens, Eugene Maria	D.C.
Berger, Dorothy Stanley	D.C.	Berens, Joseph Franklin	Va.
Berger, Florence Berene	D.C.	A.B. 1941, University of Washington	
Berger, Martha	Pa.	Berens, Eugene John	D.C.
Berger, Richard William	D.C.	Berens, Harold Frederick	Me.
Berger, Robert John	D.C.	Berens, Hugh Gustave	D.C.
Berger, Samuel Morris	Pa.	Berens, Robert Hann	Ohio
Berger, Sue	N.Y.	Berens, Sylvain	N.Y.
Berger, Ralph Vincent	Mass.	Berens, Dorothy Mabelle	Va.
A.B. 1912, Connecticut College, Meriden, Conn.		Berens, Robert Blanton, Jr.	Va.
Bergert, Walter Hunter	D.C.	Berens, John	D.C.
Berger, Orlene Virginia	Va.	A.B. 1941, The George Washington University	
B.S.C. 1941, University of North Dakota		Berens, Mary K.	D.C.
Berenson, Sarah	D.C.	A.B. 1941, The George Washington University	
Berens, Robert Martin	Pa.	Berens, Joseph Bernard	N.I.
Berens, Joseph Lawrence	Va.	Berens, Harold Ralph	Nev.
Berens, Catherine Ann	D.C.	Berenson, Frank Elmer	Id.
A.B. 1923, University of Indiana		Berenson, Elmer Albert	D.C.
Berk, Mary Louise	D.C.	Berenson, Hanson Kent	D.C.
B.S. 1940, Franklin and Marshall College		Berenson, Joseph Betty	D.C.
Berk, Walter Leroy	D.C.	Berenson, John	D.C.
B.E.A. 1944, University of Pennsylvania		A.B. 1941, Hunter College	
Berkey, Leonard L.	N.Y.	Berens, Robert	N.Y.
Berkey, Leola M.	D.C.	Berens, Louis	D.C.
A.B. 1941, Brooklyn College		Berens, Anne	D.C.
Berl, Michael Elmer	D.C.	A.B. 1941, South College	
Berenson, Irene Bertrac	D.C.	Berens, Charles Marvin	Ark.
Berens, Berthe Leona	Va.	B.S. 1937, University of Alabama	
Berens, Hilda Jack	D.C.	Berens, Harold Elmer	N.Y.
		Berens, Louis James	N.C.
		A.B. 1941, Duke University	
		Berens, Robert Eugene	Pa.
		Berens, Marion Ann	D.C.
		Berenson, John Yvonne	Va.

Bettendorf, Valerie Cecilia	Md.	Binder, Jack William	D.C.
Betzler, L. E. Richard	Va.	Binder, Samuel S. Sam	Pa.
Beveridge, John L. Jewell	D.C.	A.B. 1943, Marietta College	
Bevins, R. B. Shackelford	D.C.	Birch, Stanley Edward	Md.
Bevins, R. B. Mottman	Va.	B.S. 1928, LL.B. 1936, LL.M. 1945, The George Washington University	
Bevis, Charles Vann	Fla.	Birney, George Thomas	D.C.
Bevis, James Wayne	Va.	Bisbee, James Raymond	Conn.
Beyda, Joseph	Va.	B.L.E. 1948, Yale University	
Beyer, Donald Arman	Tex.	Birkover, Carl Joseph	D.C.
B.S. in B.E. 1944, Agricultural and Mechanical College of Texas		B.S. in Phil. 1941, The George Washington University	
Bishop, Pasquale John	N.Y.	Bird, George Bryant, Jr.	Pa.
Bischof, Festly	D.C.	Bird, James Frederick	D.C.
Black, Robert	D.C.	Bird, Thomas A.	D.C.
Black, Angelo Frances	N.Y.	Bird, William Lawrence	D.C.
Black, Albert Paul	Pa.	Birdsall, Sally May	Iowa
Black, Lawrence Clayton	Va.	A.B. 1947, University of Iowa	
Black, Paul Leonard	D.C.	Birklin, Louis E. B. and	D.C.
Black, Mary Edmund	Pa.	A.B. 1948, LL.B. 1947, The George Washington University	
Black, Maurice Francis	Calif.	Birkley, Michael Marie	D.C.
Black, Robert Gordon	N.Y.	Birkley, Mary Louis	Conn.
B.S. 1948, United States Naval Academy		Birkley, Betty Bernice	Me.
Bo, Norman	Fla.	Birkley, Anne Arnold Nelson	Md.
Bo, Rita Marie	La.	Birkley, Helen Patrick	R.I.
Bo, Herbert Edward	Calif.	B.S. 1942, Rhode Island College	
Boer, Mark M.	D.C.	Birkley, Eugene Albert	Ohio
A.B. 1944, The George Washington University		Birkley, George	N.Y.
Boe, James Stuart	D.C.	A.B. 1944, Transylvania College	
Boe, Bruce Edward	Pa.	Boss, Robert S.	N.Y.
Bogert, Anthony Peter	D.C.	Boss, Mary Sally	D.C.
Bogert, William John	Md.	Boss, Donald Morris	Va.
Bogert, Jack Norman	Md.	Boss, Frances Lee	Ohio
A.B. 1944, M.S. 1945, LL.M. 1942, Uni- versity of Maryland		B.S. 1946, Ohio State University	
Bogert, Harold George	Me.	Boss, Frances Margaret	D.C.
LL.P. 1947, University of Missouri		Boss, Frances Margaret	N.Y.
Bogert, Herbert W. III	Md.	Boss, Frances Rose	D.C.
B.S. 1946, United States Naval Academy		Boss, Mary Gordon	D.C.
Bogert, Anna Marie	D.C.	B.S. 1946, Ohio State University	
Bogert, Alfred Benjamin	Mass.	B.S. 1948, Johns Hopkins University	
Bogert, Jane Marie	D.C.	A.M. 1947, The George Washington University	
A.B. 1947, Central State College		Boss, Frances Jean	D.C.
Bogert, Wayne Lawrence	Ill.	Boss, George Edward	Mass.
Bogert, Albert	D.C.	A.B. 1947, The George Washington University	
Bogert, Bernard Edward	N.Y.	Boss, Irene Mabel	Me.
Bogert, Howard Moore	D.C.	Boss, Lyne Dorothy	Va.
A.B. 1948, A.M. 1949, Wellesley College		Boss, Rosemary	W.Va.
Bogert, Gustaf Frank	D.C.	A.B. 1947, Dickinson College	
Bogert, Charles Mayo	Va.	Boss, William Charles	D.C.
Bogert, Paul Stanley	N.Y.	Boss, William Robert	D.C.
Bogert, William Henry	D.C.	Boss, Anne	D.C.
Bogert, Joseph W. Jr.	D.C.	Boss, Mary	D.C.
Bogert, Victor R.	Ill.	Boss, Helen Bernice	D.C.
Bogert, Joseph M. Mottman	Va.	A.B. 1947, The George Washington University	
Bogert, Louis Arthur, Jr.		Boss, Albert Jr.	D.C.
A.B. 1944, Washington and Lee University		Boss, Frances	Md.
Bogert, William Mottman, Jr.	Va.	Boss, Robert Jr.	Md.
Bogert, Victor A. Lee, Jr.	Pa.	A.B. 1947, Bowdoin College	
Bogert, Robert Francis	Va.	Bogert, Charles Edward	Mass.
Bogert, Anna Stanley	D.C.	Bogert, Donald Mottman	D.C.
Bogert, Charles Edward	Pa.	Bogert, George Lee	Va.
Bogert, Francis B.	D.C.	B.S. 1947, University of South Carolina	
Bogert, Victor	D.C.	Black, Helen Lois	Mass.
LL.B. 1946, University of John Hopkins		A.B. 1947, Yale University	
Bogert, James William	D.C.		
Bogert, Albert	D.C.		
Bogert, Benjamin	D.C.		

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Boag, Arthur Raymond	Va.	Bond, David Lee, Jr.	Tenn.
Boak, James Harold	Pa.	Bond, Howard Hoover	Tenn.
Boat, Marion Derrick	D.C.	Bond, John Moore	Va.
Babel, Allen James	Va.	Bond, Russell Vernon	N.J.
Bobier, Pearl	Mo.	Bondy, Robert Earl	N.J.
Bohyrk, Nicholas	D.C.	Bonebrake, George Jacob	D.C.
Bochenek, Benjamin Herman	Md.	Bonfield, Robert Thomas	Fla.
B.S. 1947, University of Maryland		Bonin, Angelo Amerigo	N.Y.
Bocumska, Stefania Jadwiga	D.C.	Bons, Austin Jerome	D.C.
M.G.R. of Phil. 1935, University of Cracow		B.S. 1919, College of the City of New York	
Bochenki, Feliks G.	D.C.	Bonnell, Elwyn Thomas	Mich.
Bock, Eugene William	N.Y.	A.B. 1942, Michigan State College	
Bocobo, Dulce Laurel	Philippines	Bonnell, Virginia Crosswhite	Mich.
B.S. 1930, University of the Philippines		A.B. 1943, Municipal University of Wroclaw	
Boddie, Charles Edwin	D.C.	Bonnema, Jean Marie	D.C.
Bodgers, Rhoda Helen	N.J.	Bonner, Jane Pierce	Va.
Bodnyk, Katherine	Pa.	Bonner, Marie Anne	Nev.
Boehler, Robert B.	Ohio	Bonnett, Leo Victor	D.C.
A.B. 1935, University of Toledo		A.B. 1937, University of Minnesota	
Boehlert, Jessie Clara	N.Y.	A.M. 1942, The George Washington University	
Boehlert, Rosemary	D.C.	Bonnet, Kenneth Stanley	D.C.
A.B. 1939, The George Washington University		Bono, Evert Lee, Jr.	D.C.
Boesch, David Swaine	D.C.	Bono, Harold Lee	Wash.
Boesch, Ruth Eleanor	D.C.	A.B. 1930, University of Pittsburgh	
Boese, William Carl	Md.	B.D. 1935, University of Chicago	
Bogema, Stuart Chapman	D.C.	Bober, Jonathan Girin, Jr.	Ky.
Boggs, William	N.Y.	Booker, Florence Mae	Va.
Boggs, Barbara Ann	Pa.	A.B. 1926, Westhampton College	
Boggs, Grace Everett	D.C.	Booker, Lewis Albert	Va.
Boggs, Jane Marion	Fenn.	Bookhamer, Robert Harry	D.C.
Bogley, William Torkerman	Md.	Boone, Marjorie Ann	Iowa
Bohan, Elizabeth Rowe	Tex.	B.S. 1945, Northwestern University	
A.B. 1942, Southern Methodist University		Boone, Thomas Hood	D.C.
Bohan, John Patrick	Pa.	Boone, Walter Frederick	Calif.
Bolton, Joseph James	Pa.	B.S. 1920, United States Naval Academy	
Bohn, John Thomas	Pa.	Boop, Mahlon Ellwood	Pa.
Bohon, Robert Marion	D.C.	Boorman, Robert Henry	D.C.
Bolton, John	Md.	Booth, Emogene	Ark.
Bolton, Joseph King	D.C.	Booth, Harry Mason	D.C.
Boisen, Morton	N.Y.	Booth, Joel Clarence	Oreg.
Boker, Irving Thomas	D.C.	B.S. 1914, Georgetown University	
Baker, William David	D.C.	A.M. 1937, Georgetown University	
Baker, William Leonard	D.C.	Booton, Robert Edward	Iowa
Baker, William	Ohio	Borchardt, Edward George	D.C.
A.B. 1928, Western Reserve University		Borchardt, Owen Franklin	Va.
Baland, James M. Paul, Jr.	D.C.	Borchelt, Archie Raymond	Mo.
Baland, James M. Paul, Jr.	Va.	Borchelt, Benjamin A.	
Bales, Arnold Lee	D.C.	B.S. 1941, The George Washington University	
A.B. 1927, Hart Point College		Borcherding, Earl William	Wash.
Bales, Kenneth Norman	Ill.	Borden, Richard LeRay	D.C.
B.S. 1935, University of Illinois		A.B. 1926, Harvard University	
Balogh, William Frederick	D.C.	Borel, Paul Arnold	Va.
Balogh, Charles Fred	Md.	B.S. in C.E. 1934, University of Kansas City	
Balogh, Robert William	D.C.	M.B.A. 1938, Harvard University	
Balogh, Thomas M.	D.C.	A.M. 1943, Columbia University	
B.S. 1934, Western Tennessee State Teachers College		Borelli, Francis Aristide	D.C.
Balt, Robert, Robert Melvin	Ohio	Borkowski, Walter Aloysius	D.C.
Balt, Ernest John	Iowa	Borland, Eugene Victor	D.C.
Balt, Robert	D.C.	Borland, Robert Patterson	Pa.
Balt, Albert R. Berta	D.C.	A.B. 1943, College of Wooster	
Balt, Melvin Dement	Md.	Borman, Robert H. Goley	Ill.
Balt, Victor Reynolds	D.C.	Bornefeld, Helen Burns	Md.
Banatt, Louis John	Pa.	Bornet, Paul Leon	D.C.
Banatt, Mary	D.C.	Bornstein, Carl Louis	D.C.
Banatt, George Michael	Pa.	Bornstein, Irwin Seymour	N.J.
Bond, Carl Taylor	D.C.		
Bond, Charles Alton	Va.		
B.S. 1943, United States Naval Academy			



Bor. Jf. Daniel Allen	Md.	Bowen, Frank William, Jr.	D.C.
A.B. 1941, College of the City of New York		Bowen, John R. King	Md.
A.M. 1948, M.S. 1947, Columbia University		Bowen, William Thomas	Va.
Borcher, Louis Edward	N.C.	Brown, Edmund Chandler	D.C.
Borger, B. Otto Lee	N.I.	(LL.D. 1928, Stanford University)	
Borger, Robert D.	Md.	Brown, Henry Lawrence, Jr.	D.C.
Bork, Frank Howard Hall		Brown, Isaac Andrew, Jr.	D.C.
A.B. 1947, The George Washington University		Brown, Isaac David	N.C.
Borton, Mick Edward	Va.	Brown, Patrick John	Ia.
Boston, Jeffrey Grant	Pt.	Brown, Richard	N.H.
Bott, A. Rubin	D.C.	A.B. 1941, University of New York	
Bortz, Ellen L.	D.C.	Brown, Stephen Jennings, Jr.	D.C.
B.S. 1945, Wilson Teachers' College		Brown, Selma Stewart	Va.
Bortz, Marjetta Costa	Ia.	B.S. 1927, United States Naval Academy	
B.S. 1947, Temple University		Brown, Anna Elizabeth	Va.
Botsky, Emil	N.Y.	Brown, Carlton Lowman	Va.
A.B. 1946, Brooklyn College		Bourne, Ross Brown	Va.
Boss, Edmond	D.C.	Boutwell, George Russell	D.C.
Bostar, John	Mass.	A.B. 1941, Ken College	
B.S. in A.E., B.S. in Math. 1942, University of Michigan		Bowers, Steve Kenneth	Va.
Bosser, Leonard Albert	Va.	A.B. 1947, Shepard College	
Bossie, Sylvia Estelle	Va.	Bowers, Carl	Md.
Bosse, Tadhana	D.C.	B.S. 1947, College of the City of New York	
A.B. 1940, The George Washington University		Bowyer, Betty Anne	D.C.
Bowack, Amy	N.J.	Bowl, Foster	Md.
Bowback, Arthur Worth	Cn.	A.B. 1942, University of Maryland	
Bowling, Dudley Chase	Va.	Bowl, James Leslie	D.C.
A.B. 1947, Amherst College		Bowl, Robert James	D.C.
Bowler, Lydia Jean	Ore.	Bowl, Thompson Holmes	Ia.
Bower, William Theodore	Md.	B.S. 1947, University of Oklahoma	
Bowler, Boyd	I.C.	Bowl, Victor I.	Pt.
Bowler, Maria	Md.	Bowser, Linda Wayne	D.C.
A.B. 1947, The George Washington University		Bowser, Lloyd Lee	Va.
Borlawell, Martha Lye	Kan.	Bowser, Paul Yarnall	Tex.
Bort, Patricia Claire	D.C.	H.B. 1942, University of Texas	
Bortel, Sara Frances	D.C.	Bowyer, Betty Anne	Md.
Bortinbey, Helen Mae	Mass.	Bowyer, Margaret Augusta	D.C.
Botts, Max Eugene	D.C.	Bowyer, Thomas Eugene	D.C.
Bott, Eugene George	Ind.	Bowyer, Susan Louise	Va.
B.S. in M.R. 1941, Indiana Technical College		Bowyer, Susan Louise	Md.
Bottle, Edward Marie, Jr.	D.C.	A.B. 1947, Western Maryland College	
Boucher, Margaret Lealand	Ia.	A.M. 1946, The George Washington University	
Boulton, Nathan Joseph, Jr.	D.C.	Bowyer, Edgar Paul	D.C.
Boulton, Donald Paul	Md.	H.B. 1941, University of Maryland	
Bouley, Rene Andrew	Me.	Bowyer, Mary Ann	D.C.
Boulton, Fred Spanglow	Va.	Bowyer, John M.	Md.
Bourgeois, Jean Pierre Leonard	N.Y.	Bowyer, Vincent Paul	N.Y.
Bourgeois, Donald Clarence	N.Y.	Bowyer, Vincent Michael College	
Bourgeois, Nancy Margaret	Ia.	Bowyer, Vincent F.	N.Y.
Bouton, Katherine Jefferson	Va.	Bowyer, Vincent F.	Ia.
Bovay, Hui	Va.	Bowyer, Vincent F.	Va.
Bove, Fred Marc	D.C.	Bowyer, Vincent F.	D.C.
A.B. 1941, University of Minnesota		Bowyer, Vincent F.	Wis.
Bowden, Lawrence Mark	Md.	A.B. 1947, University of Wisconsin	
Bowie, Eric Miles	Calif.	Bowyer, Martha Gay	Va.
A.B. 1945, San Jose State College		Bowyer, Thomas Francis	N.Y.
Bowen, Lewis	Va.	Bowyer, Russell William	Md.
Bowen, Louis Green	D.C.	Bowyer, Thomas D.	Pt.
A.B. 1948, American University		Bowyer, Marshall Adams	N.Y.
Bowen, Ronald Simpson	D.C.	Bowyer, Philip Jones	D.C.
Bowen, Robert Samuel	Wash.	Bowyer, Harry Bell, Jr.	Tenn.
A.B. 1929, Stanford University		Bowyer, Fred Albeck	Md.
Bowen, Thale, Jr.	L.C.	Bowyer, George	N.Y.
Bowen, Vernon Sarah	D.C.	Bowyer, Ralph Gordon	D.C.
Bowen, Vincent Edward	U.S.	Bowyer, William Robert	Md.
A.B. 1941, Washington University	D.C.	B.S. 1947, The George Washington University	

Bradley, Frances Xavier	D.C.	Brodie, John Henry	D.C.
Bradley, Jack Haines	P.C.	Brown, Ben Elmer	Tex.
Bradley, John C. 1928	Va.	Brown, Robert Burton	Ky.
Bradley, John Greener	D.C.	B.S. 1944 University of Kentucky	D.C.
Bradley, Lawrence Lee V. Jr.	Calif.	Brown, Sam Daniel	D.C.
B.S. 1941 United States Coast Guard Academy		Brown, Herbert Marvin	Mo.
Bradley, Lester Weldon	D.C.	Brown, James Lytle	D.C.
A.B. 1947 The George Washington University		Brown, Phyllis Louise	D.C.
Bradley, Robert Earl	D.C.	Brown, Steven Heaven	D.C.
Bradley, William Orlando	Nev.	B.S. 1944 L. B. 1945 The George Washington University	
Bradshaw, Ann Stewart	Pa.	Brown, Amy	N.D.
Bradshaw, Lucile Verdie	Va.	Brown, James N. Auer	N.Y.
Bradshaw, Herbert Thadral	Ark.	Brown, George Eugene	Ill.
Brady, Joseph A.	Va.	Brown, Lee James	Pa.
Brady, Charles Walter	D.C.	Brown, John Wright	D.C.
Brady, Mark Alexander	D.C.	A.B. 1943 Columbia University of America	
Brady, Neal Caldwell	Calif.	Brown, Robert James	Va.
B.S. 1947 Western Reserve University		Brown, Melvin Luther	Mo.
Brown, Thomas Anthony	Mo.	Brown, Grace Irene	Va.
Brown, Robert Henry	D.C.	Brown, Sara	D.C.
Brown, Karen Joseph	Tex.	B.S. 1941 Kansas State Teachers College	
L.L.B. 1944 University of Oklahoma		Brown, John Weeks	Va.
Brown, Ernest Carrington	Va.	Brown, Ruth Cooper	D.C.
Brown, Margaret Alvise	D.C.	B.S. 1943 The George Washington University	
Brown, Frederick Arnold	D.C.	Brodie, Charles Seaford	D.C.
Brown, William Herbert	Ill.	Brodie, Harvey Eugene	N.Y.
B.S. 1944 University of Illinois		Brodie, William Knox	Ind.
Bryantman, Mary	Mo.	Brodie, Harold Clinton	D.C.
Bryce, Jane Samuels	Ky.	Brown, Alexander	N.Y.
Buome, Clara	Fla.	Brown, Joseph Edward	N.Y.
Buonaw, Alvin	D.C.	Brown, Robert Carl	Va.
Buonaw, Edward Francis	N.Y.	Brown, Lawrence Ethelred, Jr.	Mo.
Buonaw, Thomas	D.C.	Buck, Geraldine	Va.
Buonaw, Albert William, Jr.	D.C.	Buonaw, Harry	D.C.
Buonaw, John Shelby	D.C.	Buonaw, Marjorie	D.C.
A.B. 1945 University of North Carolina		Buonaw, Robert Beret	Mo.
Buonaw, Paul J.	N.Y.	Buonaw, Lee George	Ind.
B.S. 1941 New York University		Buonaw, Robert Albert	Mo.
Buonaw, Thomas Paul Ann	Va.	Buonaw, Albert Mary	N.J.
Buonaw, Gilbert Lionel	Va.	Buonaw, Francis Edward	Ky.
Buonaw, John	D.C.	Buonaw, Harold LeRoy	Mass.
Buonaw, R. L. S.ville	D.C.	Buonaw, Lee	N.C.
Buonaw, George Cleveland	Calif.	A.B. 1945 Columbia College	
Buonaw, John Vincent	D.C.	Buonaw, Russell William	N.Y.
Buonaw, James Fisher	D.C.	B.B.A. 1945 Finance College	
Buonaw, Joe Vernon	D.C.	Buonaw, Robert Louis	D.C.
A.B. 1940 Howard University		Bull, Frank Eugene	D.C.
Buonaw, James Conrad	D.C.	Bull, Thomas Lee	Mo.
L.L.B. 1947 University of Georgia		Buonaw, Alvin Anthony	Mo.
Buonaw, Walter Longmire	Mo.	Buonaw, Robert F. W.	D.C.
Buonaw, William Samuel	D.C.	B.S. 1945 North Carolina State Teachers College	
Buonaw, Thomas Moore	Va.	A.M. 1945 University of North Carolina	
B.S. 1942 The George Washington University		Buonaw, Barry Lane	Pa.
Buonaw, Joseph Duval	D.C.	Buonaw, Mary Edward, Jr.	Univ.
Buonaw, Paul Adams	D.C.	Buonaw, William Oliver	Mo.
Buonaw, John F.	D.C.	Buonaw, Harry Luke	Ill.
B.S. 1941 Baylor University		A.B. 1945 Wheaton College	
Buonaw, Mary Jane	D.C.	Buonaw, Joseph Gray	D.C.
Buonaw, James	D.C.	Buonaw, William Joseph	D.C.
Buonaw, A. J.	D.C.	B.S. 1945 Georgetown University	
Buonaw, James W. Jr.	D.C.	Buonaw, Lee	Tex.
Buonaw, James Neesham, Jr.	N.C.	B.S. 1940 South Hampton State Teachers College	
Buonaw, Mary Frances	Ind.	Buonaw, Mary William	N.C.
Buonaw, George K. W. Jr.	D.C.	Buonaw, Anne Frances, Jr.	Va.
Buonaw, Charles Kenneth	Mo.		
Buonaw, Phil Leonard	Calif.		
Buonaw, James Allen	Mo.		
Buonaw, John Robert	D.C.		

Brosch, Joseph Francis	V	Bross, Harrison Martin, Jr.	Md.
AB 1917, LL.B. 1918, The George Washington University		B.S. 1916, Western College	
Brink William Murray	Md	Brown, Milton H. Hooper, Jr.	Va.
AB 1908, Franklin and Marshall College		Brown, Norman Warner	Va.
AB 1902, Columbia College		Brown, Philip Henry	Kans.
Brown, Sam Levere	D.C.	Brown, Vernon Long	Pa.
Brown, Fred Glen	C	AB 1911, Temple University	
Brown, Lewis Wesley	C	Brown, William A. Ford	Va.
Brown, Joseph Quayle	Va.	Brown, William Taylor	Md.
Brown, Van	Ind.	Brown, Arthur James	Va.
Brown, John Francis Navert	N.Y.	Brown, Ralph A. Gossage	Va.
AB 1912, AM 1917, The George Washington University		Brown, Robert Oliver	Va.
Brown, Martin Luther, Jr.	Va.	Brown, Robert Lovetragline	D.C.
B.S. in C.E. 1918, University of North Carolina		Brown, Angus Macle	D.C.
Brown, Theodore Cleveland	N.C.	Brown, Arthur Mann	D.C.
Brown, Wendell Howard	Va.	Brown, Arthur Charles	Va.
AB 1901, Union College		Brown, Barbara Madson	Md.
Brown, Edward Berles	Md.	Brown, Benjamin Franklin	D.C.
Brown, Eamon John	Md.	Brown, James	Pa.
Brown, George Michael	Md.	Brown, John Gage	W.Va.
Brown, Keith Carson	D.C.	Brown, John James	D.C.
Brown, Richard LeRoy	D.C.	Brown, John Lee	Va.
Brown, Samuel	D.C.	AB 1911, Boston College	
Brown, Wm. Carl Vernon	Ind.	Brown, Charles Ross	Md.
Brown, Albert Frank C. Field	D.C.	B.S. 1927, University of Maryland	
Buckley, Carl Lewis	D.C.	Brown, Charles R. Lee	D.C.
Buckley, Spencer	D.C.	Brown, Clifford Marshall	Va.
Buck, A. W. Nell	Va.	Brown, George Henry	Va.
Buck, Elmer Dean	Ill.	B.S. 1911, Kansas State Teachers College	
Buck, Lee Roy	Okl.	Brown, George M. Mural	D.C.
AB 1911, The George Washington University		Brown, George F. Pugh, Jr.	D.C.
Buck, Xavier Martin, Jr.	N.C.	Brown, George Louis	D.C.
Buck, William Reed	Ind.	Brown, Harold	D.C.
B.S. 1916, Brown Junior University		Brown, James Henry	N.Y.
Buck, Frank Wells Evans	Ind.	Brown, James A. Jones	N.C.
Buck, John Howard Carlton	Va.	Brown, James M.	Md.
B.S. 1914, University of Georgia		Brown, James M.	D.C.
Buck, Richard G. Shaw	Ind.	Brown, James M.	N.Y.
Buck, Arthur and Melvin, Mfg.		AB 1911, AM 1927, University of Georgia	
AB 1917, The George Washington University		Brown, John A. Jones	Va.
Buck, James Duane	Ind.	Brown, John Russell	Va.
Buck, Lee H.	D.C.	Brown, John William	N.Y.
Buck, Leroy Benjamin	D.C.	B.S. 1911, United States Naval Academy	
AB 1912, University of Delaware		Brown, George Emerson	D.C.
AM 1914, University of Pennsylvania		Brown, George Emerson	Wash.
Buckley, Henry Lee	W.	Brown, George Emerson	
Buckley, Homer	N.Y.	B.S. 1911, State Teachers College, Fair Grove, Wis.	
Buck, Albert Lawrence	Md.	Brown, George W.	
B.S. 1911, Northwestern University		M.S. 1911, University of Colorado	
Buck, Lewis Henry	N.Y.	Brown, Harold	N.Y.
Buck, Robert Henry	N.Y.	Brown, Henry Keen	D.C.
Buck, Louis Otis	D.C.	Brown, Henry W. Keen	Ill.
Buck, Louis Robert	Va.	AB 1911, Western College	
Buck, Louis Robert	D.C.	Brown, Herbert	Va.
Buck, Louis	N.Y.	B.S. 1911, College of the City of New York	
Buck, Walter Lee	D.C.	Brown, Joseph Emerson	Md.
Buckley, William Lee, Jr.	D.C.	Brown, Joseph Emerson	Va.
Buckley, William Lee, Jr.	D.C.	Brown, Joseph Emerson	
Buckley, Albert Lee	D.C.	Brown, Joseph Emerson	
B.S. 1911, The George Washington University		Brown, Joseph Emerson	
Buck, Helen Catherine	Md.	Brown, Joseph Emerson	
Buck, Charles Kenneth	N.Y.	Brown, Joseph Emerson	



Brown, Lloyd George	D.C.	Bruce, Julia Andrews	D.C.
A.B. 1941, Grove City College		A.B. 1947, Smith College	
Brown, Lois May	D.C.	Bruce, Robert Henry	D.C.
Brown, Margaret Adams	N.C.	Bruce, Tracy Kirtz, Jr.	D.C.
A.B. 1941, East Carolina Teachers		Bruce, William Averett	Okla.
College, Greenville, N. C.		Bruce, Frances James	Fla.
Brown, Margaret Gordon	D.C.	Bruce, Robert Joseph	D.C.
Brown, Martin	N.Y.	Bruce, Robert Henry	N.Y.
Brown, Maudie D.	Okla.	A.B. 1943, Columbia University	
Brown, Merrill Reynolds	Va.	Bruce, Robert Joseph	Mont.
Brown, Maudie Ray	D.C.	Bruce, Robert Joseph	W. Va.
Brown, Ora Irene	D.C.	Bruce, Virginia Walter	S.D.
B.S. in 1940, Northwestern Uni-		B.S. in 1946, University of	
versity		South Dakota	
Brown, Henry Mae	N.C.	LL.B. 1947, The George Washington	
Brown, R. Daniel	D.C.	University	
B.S. in 1940, Buffalo State		Brown, John Anthony	Mo.
Teachers College		A.B. 1947, The George Washington	
Brown, Richard Allen	D.C.	University	
Brown, Richard Vernal	Ma.	Pruitt, Aaron Arnold	Va.
Brown, Robert, Jr.	N.C.	Brown, Frank Henry	Va.
B.S. in C.E. 1940, North Carolina		Brown, George C. B.	Va.
State College		Brown, Victor Carl	Mass.
Brown, Richard Lawson	Va.	A.B. 1947, Dartmouth College	
Brown, Rex Carl	S.D.	Brown, Robert S.	Va.
Brown, Robert Martin, Jr.	D.C.	B.S. 1946, M.S. 1949, Syracuse Uni-	
Brown, Rex Frank	D.C.	versity	
B.S. in 1940, University of		Brown, Stephen Boncourt	D.C.
Maine		Brown, George Boncourt	Va.
Brown, Stuart L. Landley	Conn.	Brown, Kenneth Vernon	N.Y.
B.S. 1944, United States Military		Brown, Samuel A.	Pa.
Academy		B.S. 1941, Indiana State Teachers	
M.S. 1941, Massachusetts Institute		College, Terre Haute	
of Technology		Brown, Clifford Lawrence	D.C.
Brown, Thomas Emerson	D.C.	Brown, H. Leona	MI.
Brown, Virginia Goodling	D.C.	Brown, Leo	Conn.
Brown, William B. Ladd	D.C.	Brown, Orla Henry	Va.
Brown, Walter Peterson	Va.	Brown, George A.	N.Y.
P.B. 1944, Middlebury College		Provine, Paul Eugene	D.C.
Brown, Willa Zene	Ark.	M.D. 1944, University of Chicago	
Brown, William Leon	Va.	M.P.H. 1947, Yale University	
B.S. 1941, East Central State College		Brown, Albert A.	Va.
Brown, Workshop W. L.	D.C.	Brown, Dorothy Ann	Pa.
Brown, William Palmer, Jr.	D.C.	A.B. 1941, Dickinson College	
Brown, Will, John Herbert	Ark.	Brown, Guy Thomas	Ill.
B.S. 1926, United States Naval		Brown, James Edward	Va.
Academy		B.S. 1948, M.S. 1946, Virginia Poly-	
Brown, Will, Mervyn, Ruth	D.C.	technic Institute	
Brown, Elizabeth William Walter	Pa.	Brown, John	D.C.
Brown, Francis Conrad	D.C.	Brown, John, Beverley	D.C.
Brown, Jackson Bayless	W.Va.	Brown, Kit	D.C.
B.S. in C.E. 1944, West Virginia		B.F. 1941, M.S. 1942, North Caro-	
University		lina State Teachers College	
Browning, John Robert	N.J.	Brown, Fred Webber, Jr.	Mass.
B.S. 1943, University of Alabama		Brown, Ralph Lee	Ma.
Browning, Philip Parker, Jr.	D.C.	Brown, George R.	D.C.
B.S. 1941, University of Pennsylvania		Brown, Thomas	Mass.
Brown, Max Helen	Kans.	Brown, Edward Joseph	N.J.
A.B. B.S. 1941, Fort Hays Kansas		Brown, Nick Jr.	Pa.
State College		Brown, Donald Anthony	Va.
Brown, John Kenneth	D.C.	Brown, Charles Deighton	D.C.
Brown, John, Maryland	N.J.	Brown, Donald Richard	D.C.
Brown, John, Herman	D.C.	Brown, James Arthur, Jr.	D.C.
Brown, Anne Norton	Va.	B.S. 1944, Northwestern University	
Brown, Beverly Irene	Va.	B.S. 1946, Edinboro	Mo.
Brown, James William	Va.	B.S. in M.E. 1947, Missouri School	
B.R. R. and Engineers	MI.	of Mines	
Brown, Jean Mary	Va.	Brown, Katherine Dorothy	Ark.
Brown, Barbara Lee	D.C.	A.B. 1947, Union University	
Brown, Charles Warren	Mass.	Brown, William Walter	Mo.
Brown, Charles Ray	Pa.	Brown, Francis Virginia	D.C.
B.S. 1941, University of Pittsburgh		Brown, Bernard	N.Y.
Brown, James Crawford	Va.	A.B. 1942, Brooklyn College	



Balderson, David Jule	N.I.	Bald, David Armstrong	Tex.
Bald, Barbara Lou	Va.	A.B. 1947, Texas Christian University	
Bald, Fred Everett	Ill.	B.A., Virginia M.	Tenn.
Bald, Samuel Otto	D.C.	B.A., College of Arts	D.C.
Baldberg, Albert	D.C.	B.A., Western Union	N.I.
A.B. 1947, The George Washington University		B.A., Walter Clifford	D.C.
Baldier, Arthur Stanley	N.I.	B.A., St. Mary's	Pa.
Baldier, James Leonard	D.C.	B.A., Catherine Georgine	D.C.
Baldier, Betty Jean	D.C.	B.A., Thomas Hartman	Md.
Baldley, Charles W.	Va.	B.A., George Henry	Mo.
Baldley, Daniel John	D.C.	B.A., Robert Paplin	D.C.
Baldley, Frank Lawrence	D.C.	A.B. 1947, The George Washington University	
Baldley, Margaret Ellen	D.C.	B.A., Kathryn Anne	N.I.
Baldley, Ralph Edward	Va.	B.A., Mary and Carolyn	Ga.
B.S. 1948, Virginia Polytechnic Institute		B.S. 1947, University of Chattanooga	
Baldwin, Robert Baldwin	D.C.	Baldon, Harvey Paul	Tex.
Baldwin, William Boyd	D.C.	B.S. 1948, United States Naval Academy	
B.S. 1947, University of Maryland		Baldon, Melvin	D.C.
Baldwin, Thomas	D.C.	Baldon, William Carter, Jr.	D.C.
Baldwin, Margaret Lillian	D.C.	A.B. 1947, Princeton University	
Baldwin, Lillian	D.C.	Baldwin, Ernest Leonard	Va.
B.S. 1947, College of the City of New York		Baldwin, John Arthur	N.Y.
Baldwin, Mary Baker	D.C.	Baldwin, Mary	D.C.
Baldwin, Stephen	N.Y.	B.M.E. 1942, New York University	
A.B. 1938, Brooklyn College		Baldwin, Austin Lewis	D.C.
Bald, Henry Richard	Mass.	Baldwin, Elmer Frederick	Md.
Bald, Emily Josephine	N.Y.	Baldwin, James Ross, Jr.	Md.
Bald, Milton Eugene	Mass.	A.B. 1947, Maryland State College	
Bald, Arthur Hyde, Jr.	Va.	Baldwin, Victor Henry	D.C.
Bald, Douglas Maxwell	D.C.	Baldwin, William Central	Va.
Bald, Joseph Whitman	D.C.	Bald, Paul William, Jr.	D.C.
Bald, Dora	D.C.	Bald, John Lee	Md.
Bald, James Orndeth	Ill.	Bald, John Henry	D.C.
Bald, John Anthony	N.H.	Bald, John Rouse	D.C.
Bald, Eugene	N.Y.	Bald, John Lawrence, Jr.	Md.
Bald, Paul Edward	Pa.	Bald, John Edward	Va.
A.B. 1947, L.I.B. 1947, The George Washington University		Bald, John George	Va.
Bald, Thomas Melvin	D.C.	Bald, Kenneth Stanley	D.C.
Bald, John Maurice	D.C.	Bald, Lawrence Kato	Md.
Baldwin, Elmer William	Md.	B.S. 1944, University of Chicago	
A.B. 1949, A.M. 1941, Washington University		A.M. 1941, Ohio State University	
Baldwin, Natalie	D.C.	Bald, Margaret Elizabeth	N.Y.
Bald, William Lawrence	D.C.	Bald, Mary Elmer	N.I.
Bald, Allan Margaret	N.C.	P.T.A. 1947, University of Georgia	
Bald, David David	Fla.	Bald, Thomas Joseph	Va.
Bald, Thomas Allyn	D.C.	Bald, Victor Fred	D.C.
Bald, Harold	Ill.	A.B. 1947, The George Washington University	
Bald, John George	N.Y.	Bald, Joseph Allen	D.C.
A.B. 1947, Oberlin College		Bald, Eugene Thomas	Md.
Bald, John Joseph	D.C.	Bald, George Samuel	Va.
Baldwin, John Duke	Ill.	Bald, Robert Louis	D.C.
Bald, Charles Hamilton, Jr.	Va.	Bald, Charles Henry	Va.
A.B. 1941, Cornell University		B.S. 1947, Hampton-Sydney College	
Baldwin, Thomas Hunter	D.C.	Bald, Harry Hunter	Va.
Baldwin, Edward Larnack	Va.	A.B. 1947, Shepherd State Teachers College	
Baldwin, Everett Franklin	D.C.	M.S. 1947, Duke University	
Bald, Louis S.	D.C.	Baldwin, Harold Brooks	Va.
Bald, John Paul, Jr.	Ky.	Baldwin, John Lee	Va.
B.S. 1948, Tufts College		B.S. 1947, Haver College	
Baldwin, Taylor	N.I.	Baldwin, Robert Morgan	D.C.
B.S. 1941, United States Naval Academy		Baldwin, Preston Thomas	Va.
L.I.B. 1947, The George Washington University		Baldwin, Frank Norman	N.Y.
Bald, Fred A. Brown	D.C.	A.B. 1947, Landon College	
Bald, George Joseph	Md.	Baldwin, George	Ky.
Bald, Joseph Baldrige, Jr.	Md.	A.B. 1947, Princeton University	
		Baldwin, Harry Charles, Jr.	D.C.
		Baldwin, John Calvin	Pa.
		Baldwin, Melvin Lewis	Ill.
		Baldwin, George Richmond	Conn.



Callahan, Dolly Matthea	Va.	Completed, Donald C.	D.C.
AB 1919, A.M. 1921, The George Washington University		B.S. 1921, Carolina Institute of Tech.	
Callahan, Louis Francis	N.Y.	Completed, Donald Harrison	D.C.
Callahan, Joseph Robert	Pa.	Completed, Donald H. H.	Conn.
Callahan, Mary S. G.	Va.	Completed, Donald J. H.	Pa.
Callahan, Milton A. G.	Tenn.	Completed, Donald J. H.	D.C.
Callahan, Milton Burton	Va.	Completed, Donald J. H.	D.C.
B.S. 1921, University of Idaho		B.S. 1921, Rhode Island College	
Callahan, Robert Charles	D.C.	at Providence	
Callahan, Stephen Gregory	Utah	Completed, Francis W. H.	N.C.
AB 1921, Bryn Mawr College		B.S. 1921, University of North Carolina	
Callahan, Thomas Bernard	Conn.	Completed, George A. H.	D.C.
Callahan, Ann Dorothy	Va.	Completed, H. A. H.	D.C.
Callahan, Charles Lee	Md.	Completed, James H. H.	D.C.
AB 1921, University of California		Completed, James H. H.	Pa.
Callahan, Vincent Irving	N.J.	B.S. 1921, Ohio Northern	
Calder, L. Z. I.	D.C.	University	
AB 1921, Lehigh College		Completed, John H. H.	D.C.
Callaway, Charles Calvin	Ohio	Completed, John H. H.	D.C.
Callaway, Henry	Va.	Completed, John H. H.	Pa.
Callaway, Joseph F. H.	Va.	Completed, John H. H.	W.Va.
Callaway, Mary M. C.	Ohio	Completed, John H. H.	Va.
Callaway, William, Edwin	D.C.	Completed, John H. H.	D.C.
Callow, John H.	D.C.	Completed, John H. H.	Va.
Callow, John Henry	D.C.	Completed, John H. H.	D.C.
Callow, Patricia Ann	W.Va.	Completed, John H. H.	N.J.
Calloway, William Basil	D.C.	Completed, John H. H.	Conn.
AB 1921, The George Washington University		B.S. 1921, United States Naval Academy	
Calloway, William Donald	D.C.	Completed, Robert H. H.	Va.
Calloway, Paul Emerson	Mass.	B.S. 1921, Newark College of Eng.	
B.S. 1921, University of Minnesota		Completed, Stephen J. H.	Ohio
Callum, Murray Stanley	D.C.	AB 1921, Lehigh University	
Callum, Arthur Keith	D.C.	Completed, William H. H.	D.C.
Callum, Charles L. P.	Pa.	Completed, William H. H.	Tenn.
Callum, Mary A.	Mass.	Completed, William H. H.	Md.
Callum, James Gilbert	D.C.	B.S. 1921, University of	
Callum, John Joseph	Pa.	Michigan	
B.S. 1921, Carnegie Institute of Tech.		Completed, Harold H. H.	I.G.
Canale, Joseph Albert	N.Y.	Completed, Harry H. H.	D.C.
Canale, Arthur Louis	Pa.	Completed, Harry H. H.	Pa.
Canale, Henry Louis	Pa.	Completed, Harry H. H.	Ky.
Canale, Joseph Victor	Va.	Completed, Harry H. H.	Pa.
Canale, Frank Conway	Pa.	Completed, Harry H. H.	N.Y.
AB 1921, University of Michigan		Completed, Harry H. H.	D.C.
Canale, Louis William	D.C.	Completed, Harry H. H.	D.C.
Canale, Robert L. G.	Md.	Completed, Harry H. H.	D.C.
Canale, William H.	Md.	Completed, Harry H. H.	D.C.
AB 1921, University of Utah		Completed, Harry H. H.	D.C.
Canale, William Kenneth	Pa.	Completed, Harry H. H.	D.C.
Canale, L.	D.C.	Completed, Harry H. H.	D.C.
Canale, R.	N.M.	Completed, Harry H. H.	D.C.
Canale, Maurice Ann	Va.	Completed, Harry H. H.	Md.
Canale, Robert Joseph	Va.	AB 1921, The George Washington University	
B.S. 1921, The George Washington University		Completed, Harry H. H.	D.C.
Canale, A. W.	Md.	Completed, Harry H. H.	N.Y.
Canale, Joseph Henry	D.C.	Completed, Harry H. H.	N.Y.
Canale, Anne Frances	D.C.	Completed, Harry H. H.	D.C.
B.H. 1921, Rhode Island College		Completed, Harry H. H.	N.Y.
Canale, L.		Completed, Harry H. H.	N.Y.
Canale, Ann Ann	D.C.	Completed, Harry H. H.	N.Y.
Canale, Ann Bernard B.	Pa.	Completed, Harry H. H.	N.Y.
Canale, John	Va.	Completed, Harry H. H.	D.C.
Canale, Robert Frank	D.C.	Completed, Harry H. H.	Md.
Canale, Paul Joseph	D.C.	Completed, Harry H. H.	Pa.
Canale, John Joseph	D.C.	Completed, Harry H. H.	D.C.
Canale, Charles Frank	Ky.	Completed, Harry H. H.	D.C.
Canale, Charles Frank	Pa.	Completed, Harry H. H.	D.C.
Canale, Charles Frank	Va.	Completed, Harry H. H.	Ky.
Canale, Charles Frank	Va.	Completed, Harry H. H.	Ohio
Canale, Charles Frank	Md.	Completed, Harry H. H.	D.C.



Capozio, John Theodore	Va.	Carriker, Guy Homer	D.C.
Capp, John Walter	N.J.	B.S. 1942, University of Texas	
Cappelen, Louise Muntie	D.C.	Carrillo, Maria Manuela	D.C.
Cappinann, Mary Beverley	Va.	A.B. 1920, University of the	
Capps, Frank Leslie	D.C.	Philippines	
Capps, Robert Andrew	N.Y.	Carroll, Douglas Stewart	D.C.
Carabas, Frank	N.Y.	Carroll, Mary Josephine	Tenn.
Carafas, Vicki Constance	D.C.	A.B. 1931, Maryville College	
Carau, Frank Louis	Va.	Carroll, Norman Sellman	Va.
Carballo, Caridad Mercedes	Puerto Rico	Carrillo, Thomas Wyatt	N.Y.
Cardinal, Louis Charles	Mass.	Carron, John Edgar	D.C.
Cardwell, Quinn Maynard	Va.	Carron, Harry Roberts, Jr.	D.C.
Carey, George Henry, II	R.I.	B.S. 1918, United States Naval	
B.B. 1946, Providence College		Academy	
Carlson, Eugene	N.C.	M.S. 1942, California Institute of	
Carlin, Robert John	Calif.	Technology	
Carlin, John Frances	D.C.	Carson, Mary Alice	Tex.
Carlisle, Harold Avery	Mich.	Casten, Leo Augustine	D.C.
Carls, Louis	Tex.	B.S. 1914, Massachusetts Institute of	
A.B. 1921, Southern Methodist Uni-		Technology	
versity		LL.B. 1942, The George Washington	
A.M. 1922, Columbia University		University	
Carlson, Bertha	Va.	Carter, Charles	Ga.
B.S. 1929, Columbia University		Carter, Darrell Denmeade	D.C.
Carlson, Charles Arthur, Jr.	Va.	Carter, Elizabeth Carsey	Tex.
Carlson, Howard Kenneth	Wis.	Carter, George Washington	Ohio
Carlson, John Arthur	M.I.	Carter, Harold Martin	W.Va.
Carlson, Harry Nelson	D.C.	B.S. 1942, Roanoke College	
Carnes, Raymond Eugene	Md.	Carter, Kenneth	Calif.
A.B. 1917, The George Washington		Carter, Jack	Mass.
University		Carter, James Cameron	D.C.
Carlson, Virginia May	Mass.	Carter, Lynn Edwin	D.C.
Carmack, Louisa	D.C.	Carter, Marilyn	Fla.
Carmichael, William Benton	Tenn.	Carter, Neville Wynmore	D.C.
B.S. 1914, University of		Carter, Robert Barnhill	Md.
Tennessee		Carter, Robert Irving	Okla.
Carnes, Raymond Eugene	Md.	Carter, Sidney	N.Y.
A.B. 1917, The George Washington		B.Ch.E. 1942, College of the City of	
University		New York	
Carnvale, Caroline	N.Y.	Carter, William Joseph	Tex.
A.B. 1913, New York University		Carter, Thomas Joseph	N.Y.
D.M. 1914, Temple University		Carter, Leonard	Mo.
Carr, Christina Olive	Miss.	Carter, Anthony John	N.Y.
Carr, Melburn Madeline	D.C.	Carter, Lawrence Robert	N.I.
A.B. 1947, The George Washington		Carter, Chester Preston	D.C.
University		Carter, Arturo Ynocencio III	D.C.
Carpenter, Cal Fred	Okla.	Carter, Jean Orilia	D.C.
Carpenter, Edwin, Jr.	D.C.	Carter, Anthony Joseph	Ill.
Carpenter, George Albert	D.C.	Carter, Paul Nicholas	Va.
Carpenter, Charles Rosamary	Fla.	Carter, Armando	
Carpenter, Henry Lewis	D.C.	A.B. 1941, Colgate University	
Carpenter, Jack	Va.	A.M. 1947, New York University	
Carpenter, John	Va.	Carey, Ann Donnelly	Oron.
Carpenter, Mary I.	Ark.	Carey, Charlotte Wood	D.C.
Carrigan, Sally Francis	Mass.	Carey, John Brendan	D.C.
Carr, Charles Harrison	Mass.	Carey, John Henry	D.C.
B.S. 1941, United States Naval		Carey, John Hugh	Va.
Academy		Carr, James Barrett, Jr.	D.C.
Carr, Eleanor	D.C.	Carrigan, Robert William	Pa.
Carr, James Lyle	D.C.	Carr, James Michael	D.C.
A.B. 1947, Franklin and Marshall		Carr, James H.	La.
College		Cassata, Louis Albert	Pa.
Carr, Mary Ella	Va.	Cassidy, James Lawrence	Va.
B.S. 1918, Madison College		A.B. 1942, Randolph-Macon College	
Carr, William Hoyt	Va.	Cassidy, Mary Groff	Md.
B.S. 1940, Furman University		Cassell, Frederick Henry	N.Y.
Carr, William Keith	Va.	Cassell, Irving Seymour	N.Y.
Carr, William Larwill	Ohio	Cassell, Sanford Charles	N.I.
Carrasquillo, Ana	Puerto Rico	Casson, Marion Kathryn	Ill.
Carrera, Carmen Aida	Puerto Rico	Cassidy, Rea Theresa	D.C.
Carrick, Lester Forest	D.C.	Cassidy, Thomas Richard	D.C.
Carrico, Margaret Ann	D.C.	A.B. 1947, The George Washington	
		University	



Casson, Vernon			
AB 1941, Wayne University			
Cassidy, Thomas Howard	Mich.	Chamberlain, Sara Irene	Tex
Cassidy, Pauline Anne	Id	AB 1942, B.S. 1942, Texas State	
Cassidy, Jose Maria	Pa	Culture for Women	
Cassidy, John Bayne	D.C.	Chamberlain, Thomas W.	Mo
Castleman, Mary Lee	Id	Chamberlain, Beverly Mann	Va
Castro, Anthony Joseph	Va	Chamberlain, Charles Lloyd	Va
Casswell, Ruth Virginia	D.C.	Chambers, Ann Douglas	D.C.
Cattelan, Fless Jose Fina	D.C.	Chambers, Charles Robert	D.C.
Catalano, Catherine	D.C.	Chambers, Joy Lee	D.C.
Catalano, Stephen Patrick	Id	Chamblin, Virginia Myers	Va
Cater, Emma E.	D.C.	Chambliss, Charles Edward III	Id
Cates, George Lee	Ala	Chambreau, Robert Andrew	D.C.
Cates, Walter Clayton	D.C.	Chambreau, William Joseph	D.C.
Cavelti, Donald Roy	D.C.	Chambers, George Marlon	D.C.
Cavin, Vernon Verdel	D.C.	B.S. in F.E. 1942, United States	
Cattabiani, Robert Matthew	N.Y.	Naval Academy	
Cattani, Marie Lee	N.Y.	Champion, James Chandler	D.C.
LI B. 1944, Edham University		Champion, Marvin Ashbury	Ala
Caulfield, Atwood	Va	B.S. 1946, Alabama Polytechnic	
AB 1947, Mississippi State College		Institute	
for Women		Chan, Arthur	D.C.
AM 1938, George Peabody College		Chan, Chung Kwok	D.C.
for Teachers		Chan, Kuo Wai	China
Cantley, Randolph	D.C.	Chan, Ngon Henna	Korea
AB 1929, Cornell University		Chandler, Harold Nelson	Va
Cavert, Victor John	Va	Chandler, Herbert G.	N.Y.
Cavaler, Dorothy Michael	D.C.	Chandler, Mary Leale Cecil	Tex
Cavallaro, Vilma Antoinette	N.Y.	Chandler, William Pease	Id
Cavallo, Frank Nicholas	Mass.	AB 1941, Athens College	
Cavallo, Guido	Mass.	Chandler, William Thomas	S.C.
Cavallone, John Edward	Mass.	Chanel, Weymer Lee	Va
AB 1941, University of Oregon		Chase, Ernest Robert	D.C.
Cavanaugh, Thomas Edward, Jr.	Ill	B.M.E. 1944, College of the City of	
Cavanaugh, Vincent DePaul	Pa	New York	
B.S. 1940, Pennsylvania State College		Chasey, Donald James	D.C.
Cave, Berry Patton	Va	Chang, Chin-Nan	D.C.
B.S. 1940, Appalachian State Teach-		Chang, Shih-Ji	D.C.
ers College, N.C.		Chang, Yuen Wei	D.C.
Cavelli, Diana Emma	D.C.	Chao, Stanley C.	D.C.
Cava, Albert Jr.	Id	B.S. in Ed. 1941, Central China Uni-	
Cavale, Virginia Blanche	D.C.	versity, Wuhan, Hupchi, China	
Cavallaro, John Robert	Va	Chapman, Arnold Valetta	Va
AB 1943, University of Denver		Chapman, Charles K.	Pa
Ceballos, Antonio Benja	Id	Chapman, Harvey Reese Jr.	Va
George, Donald Jr.	Pa	Chapman, Leo Eugene	Pa
AB 1941, University of Pittsburgh		Chapman, Charles William	Va
Ceballos, Alfonso Rudolph	Id	Chapman, Clara Louise	D.C.
Ceballos, Anthony Dominick	Id	Chapman, Fred Graham	D.C.
Ceballos, Robert R.	D.C.	Chapman, Edward J.	Pa
Ceballos, Robert Peter	D.C.	AB 1941, Loyola University	
Ceballos, Rose Ann	Mo	Chapman, Howard Eugene	Va
Ceballos, Arthur Joseph	N.Y.	B.S. 1942, The George Washington	
Ceballos, Robert Martinez	N.Y.	University	
Ceballos, Constantine Peter	D.C.	Chapman, James Eliot	Wia
Ceballos, Thomas	D.C.	Chapman, Kathryn D.	Miss.
Ceballos, Pete Steven	D.C.	Chapman, Marion Evelyn	Miss.
Ceballos, Arthur	D.C.	B.S. 1941, Simmons College	
Ceballos, Maria George	D.C.	Chapman, Nelson Sebastian	Id
Ceballos, Nicholas	D.C.	Chapman, William Baker	Id
Ceballos, Walter Presley	D.C.	Carmichael, Elizabeth Bayly	D.C.
Charles, Nathan	Mo	Charnell, Elizabeth McGraw	D.C.
Charles, William Edward	D.C.	Charmey, Frank Morris	D.C.
Charles, Peter	D.C.	Charles, Arthur Mae	Va
Charles, Seymour	N.Y.	B.S. in Ed. 1941, Mary Washington	
Charles, Anthony Frank	D.C.	College	
B.S. in M.E. 1947, New York Uni-		Charles, Rita Edward	Ind
versity		Charles, Edward William	D.C.
Chalmers, Norman Edward	D.C.	Charles, Abraham	D.C.
Chalmers, Everett Ford	D.C.	B.S. 1942, Massachusetts Institute of	
AB 1940, Olivet College		Technology	



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Coladay, Jean Barrett	D.C.	Conant, Robert Charlton	D.C.
Conant, William Anderson	M.	Conant, Katherine E. B.	D.C.
AB. 1941, Westminster College		Conant, Edwin Robert	Pa.
Condit, Charles L. North	Minn.	Conant, Richard Paul	Neb.
AB. 1947, The George Washington University		B.S. 1947, University of Kansas	
Condon, Clara Tom	Ohio	Condon, Leo George	D.C.
Condon, Frank	Ind.	Condon, Mary Louise	N.Y.
Condit, Thomas Good	D.C.	LL.B. 1942, University of Omaha	
Condit, Melvin Joseph	Va.	Condon, Thomas Lewis	D.C.
Condon, William Edward	D.C.	B.S. in M.E. 1944, Northwestern University	
Condon, William Lee	Va.	Condon, Donald Tony	Va.
Condon, Charles Ernest	D.C.	AB. 1945, Clarkston College	
Condon, Mary Louise	Va.	Condon, Nina Marie	Ark.
AB. 1944, M.M. 1926, Northwestern University		B.S. in E.E. 1942, Arkansas State Teachers College	
Condon, Carol Elizabeth	D.C.	Condon, John Francis	Tex.
AB. 1941, University of Maryland		Condon, Robert Graham	D.C.
Condon, Eugene Bernadine	D.C.	Condon, Eugene Anthony	N.Y.
LL.B. 1941, The George Washington University		Condon, Margaret Nellie	D.C.
Condon, Paul Osborne, Jr.	D.C.	Condon, Herbert May	Va.
Condon, George Everett	D.C.	AB. 1940, South College	
Condon, George Conrad	D.C.	Condon, Robert Ernest	D.C.
Condon, George S. Sarnack	N.Y.	AB. 1947, Cornell University	
Condon, James Hunter	D.C.	Condon, Charles Robert	Va.
Condon, John Charles	Pa.	Condon, Helen Hope	Va.
Condon, John Doren	N.C.	Condon, Nancy Jane	Ind.
AB. 1941, Wake Forest College		Condon, Leonard Lynn	Va.
Condon, John	D.C.	Condon, Herbert Alexander	D.C.
Condon, Mary Russell	Va.	B.S. 1944, Indiana College	
B.S. 1941, Intermountain Union College		Condon, Kenneth Albert	W.Va.
Condon, Percy Henry, Jr.	Kans.	Condon, James Andrew	N.Y.
B.S. 1941, Kansas University		Condon, John Francis	D.C.
Condon, Samuel James	D.C.	Condon, Gilbert Duane	Mo.
Condon, Webster Florence	D.C.	B.S. 1944, The George Washington University	
Condon, William Ralph	D.C.	Condon, John George, Jr.	Va.
Condon, William Rayston	Pa.	Condon, William Charles	D.C.
Condon, William Thomas	D.C.	Condon, Thomas Ezra	Mo.
Condon, William Timothy	N.Y.	Condon, John Paul	D.C.
Condon, James Henry	D.C.	Condon, John	Mo.
Condon, Evelyn Ann	D.C.	Condon, Anne Marie	D.C.
Condon, David Carl, Jr.	D.C.	AB. 1948, Hunter College	
Condon, James Byron	D.C.	Condon, John Stanford, Jr.	N.Y.
Condon, Mary Jane	Mo.	Condon, Arthur Mary	Ind.
Condon, Robert Allen	Ind.	AB. 1944, Pacific College	
Condon, Elizabeth Ward	Ind.	Condon, John Thomas	D.C.
AB. 1947, The George Washington University		Condon, William Patrick	Pa.
AM. 1949, University of Oregon		Condon, Harry Arthur	D.C.
Condon, Harold Bradford	N.Y.	Condon, James Edwin	Va.
Condon, Ralph Wrenn	Wash.	Condon, James Charles	Va.
B.S. 1941, Lawrence Institute of Technology		Condon, Robert William	D.C.
Condon, Mary Martha	Calif.	Condon, Robert Arthur	Ind.
Condon, John Grenfell	Mo.	B.S. 1941, The Principia College	
Condon, John	D.C.	Condon, James Francis	Neb.
Condon, Carl Eugene	Mo.	Condon, Thomas Robert	N.Y.
Condon, William Edward	D.C.	AB. 1941, M.S. 1941, Syracuse University	
Condon, Frank Eugene	Pa.	Condon, David	D.C.
Condon, James P.	Md.	Condon, Bruce Lowell	Va.
AB. 1948, Maryland College		Condon, Carl Conrad	N.J.
Condon, Theodore Henry	Calif.	Condon, William Henry	D.C.
Condon, Paul Richard, Jr.	Md.	Condon, Anne Katharine	Ind.
Condon, Charles	Va.	Condon, Charles Francis II	D.C.
Condon, Milton Edwin, Jr.	D.C.	Condon, Eugene George, Jr.	Va.
Condon, Raymond Francis	Kans.	Condon, Lawrence D. Jr.	D.C.
Condon, Ross H. Brown	Va.	Condon, George Maurice	Calif.
B.S. 1947, Massachusetts Institute of Technology		Condon, Carl Frederick	D.C.
Condon, Gloria Marie	Puerto Rico	Condon, Charles Eugene	Va.
B.S. 1945, Mary Washington College		B.S. 1946, Hampden-Sydney College	
		Condon, Charles Francis	Va.
		Condon, Paul William	Ind.
		Condon, Francis Rowena	Ark.

Cook, George Farnham, Jr.	Va.	Cosper, Sophia
Cook, Joseph Allen	D.C.	A.B. 1947, The George Washington University
Cook, Kenneth, Walnut	VI.	Cosper, Thomas Ernest
A.B. 1947, Dartmouth College		Cosper, Thomas S. Lane
Cook, Lawrence Bradford	N.H.	Cosper, Wesley Washburn
B.S. 1947, United States Naval Academy		LL.B. 1947, The George Washington University
Cook, Leonard Augustus	D.C.	Cosper, Washburn
Cook, Matthew Leming	D.C.	Cosper, Washburn Harlbert
Cook, Matthew, Conitide	Tex.	A.B. 1946, Western Reserve University
Cook, Marvin, Colliard	Va.	Cosperman, Bernard Robert
Cook, Ray Constantine	Pa.	A.B. 1946, The George Washington University
B.S. 1947, Temple University		Cope, Harold Barleigh
Cook, Roy Vernon	Va.	A.B. 1946, University of Kansas
Cook, Walter McQueen	Va.	Cope, Mary Lee
Cook, William Thomas	D.C.	Cope, Nancy E. Starnold
Cooke, Paul Oliver	N.Y.	Copeland, Barbara Ann
B.S. 1947, State Teachers College, Buffalo		Coppen, Judith
M.S. 1947, New York State College for Teachers		A.B. 1947, Barnard College
Cooke, John J. Andrew	D.C.	Coppen, John A. Young
Coppe, John James	D.C.	Coppen, Howard Robert
Coppe, Mary Lee	Mo.	Coppen, Taylor Revel
A.B. 1947, University of Michigan		Coppen, Vincent James
Coppe, Robert George	D.C.	B.S. 1947, Williams College
Coppe, Thomas Blackwell	N.C.	Coppen, Henry Hawkins
A.B. 1946, College of William and Mary		Coppen, James Lee
A.M. 1947, The George Washington University		Coppen, James R. Pratt
Coppen, Harold Louis	Va.	Coppen, Joseph Thomas, Jr.
B.S. 1947, M.S. 1947, University of Missouri		Coppen, David James
Coppen, Joseph William	D.C.	LL.B. 1948, Washington University
Coppen, Robert Theodore	Kans.	Coppen, John Francis
Coppen, Albert Louis	Va.	Coppen, Peter Paul
Coppen, Elmer Russell	Kans.	Coppen, Arthur Ray
A.B. 1947, Municipal University of Warsaw		Coppen, Roy Lee
Coppen, Frank Donald	D.C.	Coppen, Vincent C. Jr.
Coppen, Henry Deane	N.C.	Coppen, Dorothy Katharine
Coppen, Henry William	Mo.	Coppen, Anna Elizabeth
B.S. 1947, United States Naval Academy		Coppen, Carl Jr.
Coppen, James Patrick	Mo.	Coppen, Louis Elmer
B.S. 1947, University of Iowa		Coppen, Martin Keller
Coppen, Albert	Pa.	A.B. 1947, Mount Holyoke College
Coppen, Robert	D.C.	A.M. 1947, Radcliffe College
Coppen, Robert	D.C.	Coppen, Lucy Paul
Coppen, Albert	Pa.	Coppen, Charles Edward
Coppen, Charles David	D.C.	Coppen, Ethel Irene
Coppen, Fred Louis	Va.	Coppen, Frank
Coppen, Louis Eugene	Ala.	Coppen, Robert Lynn
B.M.E. 1947, LL.B. 1947, University of Virginia		Coppen, Michael Anthony
Coppen, Frank Neal	D.C.	Coppen, Robert George
Coppen, George H.	N.Y.	A.B. 1947, American University
Coppen, Harold Sidney	D.C.	Coppen, David Lloyd
Coppen, James Henry	Mo.	Coppen, John Joseph
Coppen, Kenneth Burke	Mo.	Coppen, Maurice Frances
B.S. 1947, United States Military Academy		Coppen, Victor
Coppen, Leonard Frederick	N.H.	A.B. 1947, Queens College
Coppen, Louis Franklin	Va.	Coppen, Leonard Lawrence, Jr.
Coppen, George William, Jr.	Ark.	A.B. 1947, New Mexico State Teachers College
Coppen, Paul Albert	D.C.	Coppen, Arthur Elmer
Coppen, Paul Francis	Mo.	Coppen, Leonard Earl
B.S. 1947, Western Maryland College		B.S. 1947, Rutgers University
M.S. 1947, University of Maryland		Coppen, M. Kenneth Phillips
Coppen, Robert Hayward	Mass.	Coppen, Dorothy Ann
Coppen, Robert Bonner	D.C.	Coppen, Albert
		Coppen, Mary Frances
		Coppen, Robert George
		Coppen, Henry John
		A.B. 1948, St. Mary's Seminary University

D.C.	Castella, Bartley Patrick	Maine	Cox, Sidney	Md
gton	AB 1926, St. Louis University		Cox, Fred L.	IL
N.Y.	H.B. 1924, Georgetown University		Cox, William Keith	I.C.
D.C.	Cox, Charles Hubert	Va	Cox, William Acker	S.C.
Va.	Cox, Eugene Maynard	I.C.	Cox, Henry John	Ind
gton	Cox, Mary Jane	Pa	Cox, George Frank, Jr.	Tenn
N.Y.	AB 1911, Seton Hill College		Cox, James Joseph	Mass
Ohio	AM 1927, University of Pennsylvania		Cox, Kenneth Raymond	RI
versity	Castro, Rufus Edward	Calif	AP 1916, Episcopal College	
D.C.	LL.E. 1924, University of California		ES 1916, 1917, Rhode Island Col	
gton	Caster, Howard Lawrence	D.C.	Law, J. Edwards	
Kans.	Cassidy, Margaret Anne	I.C.	Cassidy, John Thomas	IL
s City	Cassidy, John Richard	Mo	AB 1921, The George Washington	
AC	Cassidy, Francis Alexander	Md	Law, J. Edwards	
Pa	Cassidy, Maria	IL	Cassidy, Leo William	D.C.
D.C.	Cassidy, Joseph Robert	Md	AB 1927, American University	
N.Y.	BS 1929, Maryland State College		AM 1927, American University	NY
Va.	Cassidy, John & Edward	Mo	BS 1929, MS 1927, Stevens Inst	
D.C.	Cassidy, James Louis	IL	Law, J. Edwards	
N.Y.	Cassidy, Raymond Armand	D.C.	Cassidy, William Wild	Md
Va.	Cassidy, Mary	N.H.	Cassidy, Albert M.	D.C.
D.C.	AB 1927, The George Washington		Cassidy, Robert Patrick	I.C.
D.C.	University		Cassidy, John Thomas	I.C.
N.Y.	Cassidy, John Raymond	Tenn	Cassidy, Albert William	C
SC	Cassidy, John James	Va	Cassidy, Stephen George	D.C.
D.C.	Cassidy, William Paul	D.C.	Cassidy, George H.	D.C.
D.C.	Cassidy, George Orlin	D.C.	AB 1927, Clark University	
D.C.	Cassidy, Dorothy Louise Bodd	D.C.	Cassidy, Thomas R.	Va
D.C.	LL.E. 1929, AP 1929, The George		Cassidy, George J.	Va
Va.	Washington University		Cassidy, George J.	Va
say	Cassidy, Victor Alexander	D.C.	ES 1925, M.A. 1926, College	
Mass	Cassidy, George	D.C.	AM 1926, American Political Science	
D.C.	Cassidy, John Robert	SC	Law, J. Edwards	
Md.	Cassidy, George Robert	I.C.	Cassidy, John	D.C.
Tex	Cassidy, John George	Tex	Cassidy, John May	Germany
D.C.	H.B. 1929, Louisiana University		Cassidy, William Francis	I.C.
Va.	Cassidy, Michael	TH	Cassidy, William L.	I.C.
Mass.	Cassidy, Victor	Md	Cassidy, Robert William	Va
Ohio	Cassidy, Victor Roswell	C	Cassidy, George Francis	D.C.
Md.	Cassidy, Mary Elizabeth	I.C.	Cassidy, John James	NY
D.C.	Cassidy, Eugene James	IL	Cassidy, George J.	D.C.
ge	Cassidy, George, Indianapolis	I.C.	Cassidy, Albert M.	Va
D.C.	Cassidy, Joseph	N.H.	Cassidy, William Francis	Md
D.C.	Cassidy, Joseph	I.C.	Cassidy, John	I.C.
D.C.	Cassidy, Victor Anthony	NY	Cassidy, John	N.M.
D.C.	Cassidy, Christian Victor	Mo	Cassidy, John	Va
D.C.	Cassidy, David	Mo	Cassidy, Robert Douglas	I
D.C.	BS 1929, Iowa College		Cassidy, William O. George	D.C.
D.C.	Cassidy, Thomas	N.H.	ES 1925, University Institute of	
D.C.	Cassidy, George	Va	Law, J. Edwards	
D.C.	Cassidy, William John, Jr.	Va	AM 1927, George Washington	
D.C.	BS 1927, I.E.E. 1929, Virginia Poly		Cassidy, John Robert	D.C.
N.L.	technic Institute		Cassidy, William Francis	I.C.
IL	MS 1929, Ohio State University	Pa	Cassidy, George Francis	Va
D.C.	Cassidy, George Edward, Jr.	Va	Cassidy, William L.	Va
N.M.	Cassidy, Fred O. George, Jr.	Ohio	Cassidy, John Thomas	Ind
ach	Cassidy, Margaret Helen	D.C.	Cassidy, George Francis	NY
D.C.	Cassidy, George James	I.C.	Cassidy, John	Va
N.L.	BS 1929, University of Utah		Cassidy, William Robert	I
D.C.	Cassidy, Thomas	I.C.	Cassidy, John	D.C.
N.L.	Cassidy, George	W.Va	Cassidy, George Francis	Pa
D.C.	AB 1927, University of Pennsylvania		Cassidy, Thomas Law	D.C.
D.C.	Cassidy, George	SC	Cassidy, John	W.Va
D.C.	Cassidy, John	Va	Cassidy, William Francis	Mo
Va.	AB 1927, The George Washington		Cassidy, William Francis	Va
TH	University		Cassidy, John	Va
Conn	Cassidy, John Robert	D.C.	Cassidy, Robert	D.C.
and	Cassidy, John A.	N.H.	Cassidy, Robert William	I.C.
	Cassidy, John	N.M.	Cassidy, William Francis, Jr.	Mass
	Cassidy, George	IL	ES 1929, University of Mississippi	



Crews, William Dean	MD	Crewther, Kent Horace	D.C.
Crews, Frank A. DeLoan	D.C.	Crichton, Harry W. Barn	Ark
Crichton, Carolyn Franklin	D.C.	AB, 1941, University of Richmond	
Cright, Thomas Batts, Jr.	Ind	Cright, Douglas Van Rensselaer	D.C.
Cright, William Richard	Va.	Cright, Thomas Genevieve	D.C.
Cross, Bernard Grimes	D.C.	Crook, Charles Benjamin C., Jr.	D.C.
Cross, Howard Barbee	D.C.	Crook, Edgar Allen	D.C.
Cross, William Earl	Ohio	Crook, Francis May	Va.
Cross, William Lynton	Pa.	AB, 1949, Maryland State Teachers College	
Crossen, Howard Donald	D.C.	Crummey, Howard Lee	Va.
Cross, Merle Edward	D.C.	Crummey, Harvey Bernard	W Va.
Crocker, Warren Reed	Va.	Crummey, Ronald	N.C.
Croft, George Washington	Ga.	Crummey, Joseph Lee III	MD
Croft, L. Dean	MD	Croft, Thomas Hale	N.I.
Croft, Charles John	D.C.	Croft, Victor Henry	D.C.
Croft, Leo James	Va.	Cudd, George B.	MD
Croft, Curtis Griswold	Va.	Cudd, Irene M.	MD
Croft, Eleanor Louise	Conn.	BS, 1926, Johns Hopkins University	
Croft, James Frances	Ohio	AM, 1935, Columbia University	
Croft, Harry Dale, Jr.	D.C.	Culbertson, R. J. Taylor	D.C.
Croft, Ross and Kennedy	Va.	Culbertson, Robert	MD
Croft, L. Lee Lee	Tenn	Culley, Frank Haswood	Ala.
Croft, Robert E., Jr.		Culley, John Francis	Va.
BS, 1941, United States Military Academy		BSA, 1947, University of Miami	
MS, 1941, Carnegie Institute of Technology		Culley, Marie Arnes	N.H.
Croft, Joseph Leo	D.C.	Culley, Paul Joseph	Ohio
Croft, Robert Emmet	Ill.	Culley, Warren James	R.I.
BS, 1945, United States Naval Academy		Culley, Joseph Charles	Conn.
MS, 1941, Columbia University		AB, 1944, Catholic University of America	
Croft, William Peyton III	D.C.	Culp, Theodore Francis	D.C.
Croft, Victor V.	Va.	Culpeper, Harry Hall	Ga.
AB, 1948, Adelphi College		Culpeper, Sarah Virginia	Va.
Croft, Horton Lee	Va.	AB, 1944, Western College of the University of North Carolina	
Croft, John Raymond	D.C.	Culver, Ralph J.	D.C.
Croft, Kenneth Ward	Ohio	LL.B., 1941, University of Maryland	
BS, in E.D., 1942, Wilmington College		Culver, William Bruce	Pa.
AM, 1948, Harvard College		Culver, Barton Louis	Ky.
Cross, Calvin George	Mass.	Culver, Harold Ralph	D.C.
Cross, Catherine Joseph	D.C.	Cummings, Douglas L. Noble	
Cross, Don Norman	Iowa	BS, 1946, Kansas State Teachers College	
Cross, Herbert Virginia	W Va.	Cummings, Helen Jane	D.C.
Cross, George Jackson, Jr.	D.C.	Cummings, James Robert	Iowa
Cross, George Joseph	D.C.	AB, 1947, The George Washington University	
Cross, Margaret James	D.C.	Cunningham, Linda Ruth	D.C.
AB, 1948, University of Illinois		Cunningham, Susan	D.C.
Cross, Thomas Jackson	MD	Cunningham, David Evelyn	MI
Cross, Victor Lee	Va.	Cunningham, Marion Taylor	D.C.
Cross, W. W. Lee, Jr.	D.C.	Cunningham, Susan	Ark
Cross, Harry Bennett	D.C.	Cunningham, W. Lee, Edwin	D.C.
Cross, W. C. Lee, Jr.	Kans.	BS, 1941, Webb Institute of Naval Architecture	
AB, 1941, Municipal University of Warsaw		Cunningham, Robert Edmee	D.C.
Cross, Harold Wilkerson	MI	Cunningham, Robert	Va.
Cross, L. Lee	Va.	BS, M.L., 1947, The George Washington University	
BS, 1941, Bad State Teachers College		Cunningham, John Virginia	Va.
AM, 1948, Columbia University		AB, 1947, The George Washington University	
Cross, James James	MI	Cunningham, Joseph	D.C.
Cross, Francis Amy	MD	BS, 1941, R. J. Meade College	
Cross, Donald Aubrey	N.Y.	Cunningham, Mary Beth	MD
Cross, Henry Madison	W Va.	Cunningham, William Poling	Va.
Cross, Esther Horvath	D.C.	Culley, William Henry	Ala.
Cross, Jack	MD	Curtis, E. G. R. B. B. B.	Ohio
BS, 1947, The George Washington University		Curtis, Raymond Jeanne	Nebr.
Cross, L. Lee M.	D.C.	Curtis, Wade Richardson	D.C.
AB, 1947, Madison College			
Cross, Thomas Newell	D.C.		
Cross, James Joseph	Mass.		
Cross, James Ward	Tenn.		
Cross, Thomas M.	N.Y.		



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Dillon, Edward Thomas	Mass.	Dunmore, Ruth Ann	Mass.
B.S. 1944, Tufts College		B.S. 1943, State Teachers College,	
Dillon, Richard Eugene	N.Y.	Worcester	
B.M.E. 1941, College of the City		Dunsmuir, Robert Jay	Mich.
New York		B.S. in E.E. 1941, Wayne University	
Dinwiddie, Jack C.	N.I.	Dunn, Mary Bertha	I.C.
Law, Alfred Eastman	Va.	Dunne, David	N.Y.
Dint, Lois Margaret	Va.	DUPONT, Fayette Lawrence	N.Y.
A.B. 1942, Princeton University		Durbin, Charles	Mass.
Dixon, Alan Vernon, Jr.	N.Y.	A.L.B. 1942, S.-D.-W. University	
B.S. 1941, Tulane University		Durbin, Mel	D.C.
Dixon, Nancy Marie	Va.	Dunham, Robert Eugene	I.C.
Dixon, Mary Lou	N.C.	Dunham, Helen	N.Y.
Dixon, Rufus Peter	Ma.	Dunham, Albert Eugene	I.C.
Dixon, Paul Gordon	D.C.	Dunn, Frank Earl	W.V.
Dixon, Mary Goodman	MI.	Dunham, Eugene Peter	I.C.
Dixon, Mace Francis	I.C.	Dunham, Louis Francis	Va.
Dixon, Arnold	D.C.	Dunham, Marshall Francis	I.C.
Dixon, Louis Franklin	D.C.	B.S. 1941, Lebanon Valley College	
A.B. 1942, The George Washington		Dye, Eugene Edgar	I.C.
University		Dye, Curtis William, Jr.	I.C.
Dixon, William Francis	Va.	Dye, Curtis Eugene, Jr.	I.C.
Dixon, Louis Robert	D.C.	Dye, George Gordon	I.C.
B.A. 1941, Catholic University of		Dye, Robert Paul	Va.
America		A.B. 1941, The George Washington	
Dolan, Francis Francis	Pa.	University	
Dolan, J. J. Donald	Ma.	Dye, Paul Eugene	I.C.
Dolan, Robert Arthur	D.C.	A.B. 1942, University of Utah	
Dolan, George Jeffrey Ralph	D.C.	Dye, Thomas W.	Ma.
Dolan, J. H. A.	Pa.	Dye, William Joseph	I.C.
Dolan, Roy W. J.	Va.	Dye, William Martin	I.C.
Dolan, Patrick Chester	Conn.	Dunham, Donald	I.C.
Dolan, Jack Louis	Pa.	Dunham, John Augustine	Va.
Dolan, Ted Marshall	Kent.	B.S. 1941, Virginia Polytechnic	
Dolan, Albert Edward, Jr.	I.C.	University	
Dolan, Joseph A.	I.C.	Dunham, John Lee	D.C.
Dolan, Louis Edmund	I.C.	B.S. 1941, The George Washington	
A.B. 1941, Florida State College		University	
for Women		Dunham, John Milton	I.C.
Dolan, William Joseph	N.Y.	Dunham, John	N.Y.
Dolan, William Edward	Ma.	Dunham, John Mary	Va.
A.B. 1942, The George Washington		Dunham, John	N.Y.
University		Dunham, John	Ma.
Dolan, Anne Louise	I.C.	Dunham, Marshall, Jr.	I.C.
Dolan, Mary M. J.	I.C.	Dunham, William Oliver	Va.
Dolan, Anne Marie	I.C.	Dunham, Robert	Ma.
Dolan, Anne	I.C.	Dunham, Robert	Ma.
Dolan, Robert B.	I.C.	B.S. 1942, Massachusetts Institute	
B.S. 1941, University of Missouri		of Technology	
Dolan, Barbara Louise	I.C.	Dunham, John Joseph	Ma.
Dolan, James Robert	Conn.	A.B. 1941, Fairleigh University	
Dolan, John Kenneth	Pa.	Dunham, William Richard	A.
Dolan, Edward Eugene	D.C.	Dunham, John	I.C.
B.S. 1942, University of Illinois		Dunham, John	Va.
Dolan, George Raymond	I.C.	Dunham, Ralph William L.	I.C.
Dolan, Thomas Philip	Ma.	A.B. 1941, Catholic College	
B.S. in B.A. 1942, University of		Dunham, John	I.C.
Pennsylvania		Dunham, John	I.C.
Dolan, Zetta Evelyn	D.C.	Dunham, John	I.C.
A.B. 1941, The George Washington		Dunham, John	I.C.
University		Dunham, John	I.C.
Dolan, Charles Edward	N.D.	M.D. 1941, The George Washington	
Dolan, John Robert	Mass.	University	
Dolan, Charles Chester, Jr.	D.C.	Dunham, John	Mass.
B.S. 1941, The George Washington		Dunham, John	Conn.
University		B.S. 1941, University of Missouri	
Dolan, Mary McNeill	I.C.	Dunham, John	N.Y.
Dolan, Louis Blaine	Va.	Dunham, John	N.Y.
A.B. 1941, Catholic University of		Dunham, John	Ma.
America		Dunham, John	I.C.
Dolan, Margaret Catherine	Mass.	A.B. 1941, College of the City of	
		New York	



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Fielding, Anne Moore	M.S.	Empower, Ford, Edmund	Md.
A.B. 1911, The George Washington University		B.S. 1911, M.S. 1912, Montana State College	
Fletcher, James Russell	Ky.	Fletcher, Michael	N.M.
Fletcher, Robert C.	Va.	Fletcher, William Frederick	Va.
B.S. 1912, Ohio University		Fletcher, Arthur Philip	Md.
Flood, Mary Allen	Va.	B.S. 1914, University of Wisconsin	
Flood, Charles Cameron	Va.	Flood, Louis Edmund	Md.
Flood, Donald Murray	Pa.	Flood, Louis	Calif.
Flood, Alexander Franklin	Va.	Flood, Philip Clarence	D.C.
Flood, Charles	W.V.	Flood, Charles William, Jr.	D.C.
B.S. 1911, West Virginia University		Flood, Philip Nelson	D.C.
Flood, John Walter	Pa.	B.S. 1914, Whitewater State Teachers College	
Flood, Frank Cameron	Pa.	Flood, John Richard	W.V.
Flood, Thomas Donald	D.C.	Flood, John Edward	Ill.
A.B. 1911, Wesley College		B.S. 1914, Iowa Institute of Technology	
Flood, Robert Lee, Jr.	Ill.	Flood, George Hark, Jr.	Va.
Flood, Robert Stephen	Ill.	Flood, George Hark, Jr.	Kans.
Flood, Stanley Lewis	D.C.	A.B. 1911, Kansas University	
Flood, William Henry, Jr.	N.Y.	Flood, George Henry	D.C.
A.B. 1911, Western University		Flood, George Henry	Ind.
Flood, Thomas Alexander	SC.	Flood, George Henry	Va.
A.M. 1911, same college		Flood, George Henry	Va.
Flood, Thomas Howard	D.C.	Flood, George Henry	D.C.
Flood, John William	Md.	B.S. 1911, Western Teachers College	
Flood, Thomas	D.C.	Flood, Michael	N.Y.
Flood, Thomas	D.C.	Flood, Michael	N.C.
Flood, Thomas	N.C.	B.S. 1911, University of William and Mary	
Flood, Thomas	D.C.	Flood, Robert	N.Y.
A.B. 1911, The George Washington University		Flood, Thomas Joseph, Jr.	D.C.
Flood, Thomas		Flood, Thomas William	D.C.
Flood, Thomas	Gi.	Flood, Thomas	D.C.
Flood, Thomas	N.Y.	Flood, Thomas	D.C.
Flood, Thomas	Mass.	Flood, Thomas	D.C.
A.B. 1911, University of Michigan		B.S. 1911, University of	
Flood, Robert	D.C.	Flood, Thomas	D.C.
Flood, William Henry, Jr.	W.V.	Flood, Thomas	Va.
A.B. 1911, Western University		Flood, Thomas	W.V.
A.M. 1911, Harvard University		Flood, Thomas	Mass.
Flood, Charles Henry, Jr.	Tex.	Flood, Thomas	Va.
Flood, Charles	Md.	B.S. 1911, The George Washington University	
Flood, John K. Ross	N.Y.	Flood, Thomas	D.C.
Flood, John K. Ross	Okla.	Flood, Thomas	N.J.
Flood, John K. Ross	Va.	Flood, Thomas	N.Y.
Flood, John K. Ross	D.C.	Flood, Thomas	
Flood, John K. Ross	Va.	Flood, Thomas	
Flood, John K. Ross	Md.	Flood, Thomas	
Flood, John K. Ross	D.C.	Flood, Thomas	
Flood, John K. Ross	Va.	Flood, Thomas	
A.B. 1911, University of Henry College		Flood, Thomas	
B.S. 1911, The George Washington University		Flood, Thomas	
Flood, John K. Ross, Jr.	N.Y.	Flood, Thomas	
B.S. 1911, College of the City of New York		Flood, Thomas	
Flood, John K. Ross	N.Y.	Flood, Thomas	
Flood, John K. Ross	Va.	Flood, Thomas	
A.B. 1911, The George Washington University		Flood, Thomas	
Flood, John K. Ross	D.C.	Flood, Thomas	
Flood, John K. Ross	Okla.	Flood, Thomas	
B.S. 1911, Trinity College	D.C.	Flood, Thomas	
Flood, John K. Ross	D.C.	Flood, Thomas	
Flood, John K. Ross	D.C.	Flood, Thomas	
Flood, John K. Ross	Va.	Flood, Thomas	
A.B. 1911, Duke University		Flood, Thomas	
Emmett, William Joseph	D.C.	Flood, Thomas	

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Feyer, Nancy	N.I.	Fisher, Roy Earl	Kans.
Felt, Rod Payton	Calif.	Fisher, C. E. 1947, University of	
B.S. 1948, United States Naval		K.	
Academy		Fisher, James Michael	Ia.
Felt, Roger Leonard	Ill.	Fisher, James	Mich.
A.B. 1945, Cornell University		Fisher, John William	Calif.
Felt, Henry Benjamin	Va.	Fisher, Joseph Edward	Ill.
Felt, John Benjamin	Va.	Fisher, Robert Ross	Ill.
Felt, Robert William	N.Y.	Fisher, Robert Joseph	Ill.
B.A.E. 1946, College of the City of		Fisher, Robert	Calif.
New York		Fisher, Mary Ellen	Ill.
Felt, Robert Newton	Kans.	Fisher, Peter Louis	Va.
A.B. 1947, Municipal University of		B.S. 1941, Tusculum Institute of	
Wisconsin		Tennessee	
Feld, Isaac Lee	Va.	Fisher, Edward Henry	Va.
Feld, Lawrence Irvine	Ill.	Fisher, David Graham	W.
B.S. 1947, C.E.L. 1949, College of the		Fisher, David Graham	Ill.
City of New York		Fisher, Henry Carl	Ill.
Feld, James Oscar	D.C.	Fisher, Dr. Sigward	N.Y.
A.B. 1947, Georgetown University		B.A. 1947, College of the City of	
Feld, William Crane	Va.	New York	
Feld, Kenneth F.	D.C.	Fisher, Scott James	Md.
B.S. 1948, United States Military		Fisher, Paul Allen	Va.
Academy		A.B. 1944, A.M. 1947, The George	
M.S. 1947, Harvard University		Washington University	
Feld, Charles William	Calif.	Fisher, Marvin	Ia.
A.B. 1947, University of California		Fisher, Marvin William	Va.
Feld, Robert Carroll	N.C.	Fisher, Sam Marshall	Ill.
Feld, Victor	N.Y.	Fisher, Stanley Leonard	N.Y.
B.S. 1947, Brooklyn College		Fisher, Ann Katherine	Va.
A.M. 1947, Columbia University		Fisher, Barbara Ann	Va.
Feld, Helen Louise	D.C.	Fisher, Carl William	Calif.
A.P. 1948, Howard College		Fisher, Philip George	D.C.
Feld, George Leonard	Md.	Fisher, Robert Taylor	Ill.
B.S. 1947, York College		Fisher, Scott Marshall	Ohio
Feld, Edward Gregory	Miss.	L.L.B. 1948, Washington College of	
Feldman, George Anthony	Ill.	Law	
Feldman, Isaac Joseph	Md.	Fisher, Hubert Wayne	Pa.
Feldman, Isaac Joseph	D.C.	Fisher, John Edward	Ill.
Feldman, Robert Joseph	Mo.	Fisher, Joseph James	Va.
Feldman, Joseph Joseph	D.C.	B.S. 1947, American College	
Feldman, Anna Woodell	N.D.	A.M. 1948, Harvard University	
Feldman, Chester Lee Jr.	D.C.	Fisher, Kenneth Nelson	Ill.
B.S. 1947, Iowa University		A.B. 1947, Washington	
Feld, Lewis F.	D.C.	Fisher, Kenneth	N.I.
Feld, Robert Harrison	Calif.	Fisher, Margaret William	Va.
A.B. 1947, Occidental College		A.B. 1947, Radcliffe	
Feld, Walter George	Md.	Fisher, M.	Pa.
B.E. 1947, Ohio Polytechnic University		A.B. 1947, The George Washington	
L.L.B. 1948, Tusculum University		University	
Feldman, Isaac Alexander	Md.	Fisher, Milton Eugene	Va.
Feldman, Lee M.	Iowa	A.B. 1947, The George Washington	
A.B. 1947, State University of Iowa		University	
Feldman, Karen Elizabeth	Pa.	Fisher, Robert James	Ill.
Feldman, William Joseph	D.C.	B.S. 1947, University of Michigan	
A.B. 1947, University of Texas		Fisher, Henry Warren	Md.
Feldman, Norman	D.C.	Fisher, Allen Robert	Va.
Feldman, Robert	D.C.	Fisher, Arthur Thomas	Ill.
Feldman, Sarah Ann	D.C.	Fisher, Harry John	Md.
Feldman, Carl Marshall	D.C.	Fisher, Paul Monroe	D.C.
Feldman, Carl Marshall	D.C.	Fisher, Virginia Marie	Md.
Feldman, William	Va.	Fisher, Stuart Nelson, Jr.	Va.
B.E. 1947, M.C.E. 1947, Rensselaer		Fisher, Stuart Nelson	Md.
Institute		Fisher, Donald Edward	Md.
Feldman, Charles	D.C.	Fisher, Thomas Patricia	Conn.
Feldman, James	D.C.	Fisher, Thomas	Miss.
Feldman, Lawrence	Ill.	Fisher, Jack Phillips	N.C.
Feldman, Scott Lewis	N.Y.	Fisher, John Patrick	Va.
Feldman, Helen Kane	Va.	Fisher, John Patrick	Ill.
A.B. 1947, Howard College		B.S. 1947, The George Washington	
A.M. 1947, The George Washington		University	
University		Fitzgerald, Lucille Veronica	D.C.

Fitzgerald, Mary Jane	D.C.	Fletcher, Navel Clinton	Md.
A.B. 1945, Newark College		Fletcher, David Charles	Va.
Fitzgerald, Warren Herbert	Pa.	Fletcher, William Bruce	Kans.
A.B. 1947, The George Washington		Fletcher, Howard W. Worth	Md.
University		Fletcher, Walter Madison	Va.
Fitzthum, Donald Sayre	N.Y.	Flier, Martin Karlson	Ga.
Fitzpatrick, Howard Lee	ME	Flier, Richard Benjamin	D.C.
Fitzpatrick, John	Pa.	Flier, Samuel Roy	W.Va.
Fitzpatrick, Margaret Mary	D.C.	Flier, Theodore Herman	W.Va.
B.S. 1947, Washington University		A.B. 1944, Salem College	
Fitzpatrick, William Alexander	D.C.	Flier, Joseph Howard, Jr.	D.C.
Fitzsimmons, George August	M.S.	Flier, Richard Kenneth	W.
A.B. 1947, The George Washington		Flier, Lawrence Henry	I.
University		Flier, Margaret M. Flier	D.C.
Fitzsimmons, James E.	Calif.	A.B. 1944, The George Washington	
Fitzsimmons, James William	N.Y.	University	
B.M.E. 1947, Polytechnic Institute		Fletcher, Jack Milton	Ind.
of Brooklyn		B.S. 1949, Indiana State Teachers	
Fitzsimmons, Leason Lawrence	D.C.	College	
Fitzsimmons, Leason Mary	D.C.	Flier, Anthony Herald	Va.
A.B. 1944, Virginia College		Flier, Walter James	Mo.
Fitz, Chester	Va.	Flier, Mary Marshall	Va.
Fitz, William Robert, Jr.	D.C.	Flier, Carl Vincent	Md.
Fitz, Howard Glen	D.C.	Flier, Charles Howard	D.C.
Fitz, Thomas Eugene	Calif.	Flier, Joe Henry	Va.
A.B. 1941, San Diego State College		Flier, Joe Henry	D.C.
Fitz, Victor Kent	D.C.	Flier, Albert E. Flier, Jr.	D.C.
Fitzmaurice, Anthony Constant	Va.	Flier, George Joseph	I.
Fitzmaurice, Richard Lawrence	V.	B.M.E. 1947, University of Minnesota	
Fitzmaurice, Francis James	D.C.	Flier, Joseph Louis	Ohio
B.S. 1948, Catholic University of		Flier, Joseph B. Flier	N.Y.
America		Flier, Joseph B. Flier	D.C.
Fitzmaurice, William Patrick	N.Y.	B.S. 1947, Oklahoma State	
Fitzmaurice, William William	D.C.	University	
A.B. 1945, University of Chicago		Flier, John Constant	Pa.
Fitzmaurice, Robert Lee	Tex.	Flier, Paul Francis	W.
A.B. 1947, The George Washington		Flier, Paul G.	Va.
University		Flier, Charles Francis	D.C.
Fletcher, Herbert L.	P.	Flier, Edward Joseph	Va.
Fletcher, Albert Chester, Jr.	D.C.	Flier, Joseph Joseph	W.
Fletcher, Matthew	D.C.	Flier, Thomas Patrick	D.C.
Fletcher, Thomas Eli	N.Y.	A.B. 1945, The George Washington	
B.S. 1948, Pennsylvania State		University	
College		Flier, Susan Frances	D.C.
Fletcher, Mary Audrey	N.Y.	Flier, Anne Marie	Ind.
Fletcher, Harold Joseph	Pa.	Flier, George Daniel	D.C.
Fletcher, George Herbert	I.	B.S. 1947, Temple University	
Fletcher, Robert	D.C.	Flier, Louis Frederick	V.
Fletcher, Thomas	D.C.	Flier, George Albert	D.C.
Fletcher, William Nathan	D.C.	Flier, George Kenneth	N.Y.
Fletcher, Edward E. Flier	Va.	Flier, Michael Edward	D.C.
Fletcher, William	Va.	Flier, Robert Joseph	N.Y.
Fletcher, Louis Edgar	Md.	B.S. 1947, United States Naval	
A.B. 1947, West Virginia University		Academy	
Fletcher, Mary Elizabeth	AM	Flier, Thomas Eugene	D.C.
1947, University of North Carolina		Flier, Walter Allen	D.C.
Fletcher, Louis James	D.C.	Flier, Anne Marie	Ind.
Fletcher, Mary Joseph	D.C.	Flier, George Daniel	D.C.
Fletcher, Mary Alice	N.Y.	Flier, Louis Frederick	V.
Fletcher, Robert Melrose	Ohio	Flier, George Albert	D.C.
Fletcher, Robert M.	Va.	Flier, George Kenneth	N.Y.
Fletcher, Robert Lee, Jr.	V.	Flier, Michael Edward	D.C.
Fletcher, Donald Wilson	ME	Flier, Robert Joseph	N.Y.
Fletcher, Thomas Clark	Va.	B.S. 1947, United States Naval	
Fletcher, Thomas J.	D.C.	Academy	
Fletcher, George Arthur	V.	Flier, Thomas Eugene	D.C.
Fletcher, Howard	ME	Flier, Walter Allen	D.C.
Fletcher, John M.	D.C.	Flier, Anne Marie	Ind.
B.S. 1947, West Virginia Teachers College		Flier, George Daniel	D.C.
A.M. 1947, Catholic University of		Flier, Louis Frederick	V.
America		Flier, George Albert	D.C.
Fletcher, Louis Lee	Pa.	Flier, George Kenneth	N.Y.
Fletcher, Robert Richard	Va.	Flier, Michael Edward	D.C.
Fletcher, Mary	N.Y.	Flier, Robert Joseph	N.Y.
		B.S. 1947, University of Nevada	
		University	
		B.S. 1947, College of the City of	
		New York	
		Flier, Vernon Stuart, Jr.	Va.
		Flier, Joseph	D.C.
		D.D.S. 1943, Georgetown University	

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Fraser, Norman Ewing, Jr.	Mid	Griffith, Dennis Quincy	Pa
BS 1925, United States Naval Academy		Griffith, Robert Lawrence	Pa
Fraser, John E. Edgar, Jr.	I-C	Griffith, Robert M. Moore	Pa
BS 1927, Miami Valley College	Tex	Griffith, Charles Clinton, Jr.	D-C
Fraser, Virginia Blaine	Nebr	Griffith, John, Jr.	Pa
Fraser, Robert A.	D-C	Griffith, Louis	Pa
Fraser, Robert A. Jr.	Mo	Griffith, Louis Wesley	Pa
Fraser, Richard Everett	I-H	BS 1922, The George Washington University	Pa
Fraser, Norman	I-H	Griffith, Robert	Ky
BS 1911, Harvard University		Griffith, Robert Wesley, Jr.	Pa
AM 1911, The George Washington University		Griffith, William	I-C
Fraser, Frank Graham	R-I	Griffith, William	N.J.
BS 1929, Averett College		Griffith, William Allen	D-C
Fraser, George Chalmers	Va	Griffith, Martin Robert	N.Y.
AB 1942, Dickinson College		BS 1946, College of the City of New York	
Fraser, Robert Oliver	Va	Griffith, Charles Joseph	D-C
AB 1929, Municipal University of Chicago		Griffith, Albert	W.Va
Fraser, Walter Roswell	Va	Griffith, Frederick Blake	D-C
BS 1927, The George Washington University	I-H	Griffith, Edward Francis	D-C
Fraser, Lewis	Calif	Griffith, Henry Allen	I-C
BS 1925, United States Naval Academy	Tex	Griffith, Harold Frank	Va
Fraser, Louis Edgar		Griffith, James Madison	D-C
Fraser, Mary Anne	Ill	BS 1941, The George Washington University	
AB 1925, University of North Carolina		Griffith, William Martin	Mo
Fraser, Robert Samuel	D-C	Griffith, William Bryant	D-C
BS 1914, 1929, Eastern Illinois State Teachers College	Pa	Griffith, John Thomas	Va
Fraser, Bruce M.	Ky	Griffith, Albert	D-C
BS 1926, North Ewing, Jr.	Va	Griffith, William Stewart	I-C
Fraser, Lewis Samuel	S-C	BS 1921, Harvard University	
Fraser, Robert Hughes	Va	Griffith, Albert W.	Mass
Fraser, Arthur George	Va	Griffith, Samuel Young	Va
Fraser, Robert Lewis	I-C	BS 1925, United States Naval Academy	
Fraser, Robert Elmer	Mass	Griffith, Frank Dyer	Mo
AB 1925, University of Missouri	N.Y.	BS 1925, United States Naval Academy	
Fraser, Marshall	D-C	Griffith, Albert	Pa
Fraser, Samuel Joseph		Griffith, Robert Edward	N.Y.
Fraser, William Ross, Jr.	D-C	Griffith, Henry	I-C
AB 1922, H.B. Ross, Harvard University		Griffith, Henry	I-C
Fraser, Eugene Marvin	D-C	BS 1921, Harvard University	
Fraser, Paul Leroy	D-C	Griffith, John Harrison	N.Y.
Fraser, Lewis Benjamin	D-C	Griffith, John Augustine	N.Y.
Fraser, Robert Henry	I-C	Griffith, Albert	D-C
Fraser, Francis Albert, Jr.	Va	Griffith, John	D-C
Fraser, Howard Irvine		Griffith, James	I-C
AB 1926, University of California at Los Angeles		Griffith, John Richard	Conn
Fraser, Louis R. Ford	D-C	BS 1925, The George Washington University	
AB 1911, The George Washington University		Griffith, John A.	Mass
AM 1914, Columbia University		Griffith, Henry Monroe	D-C
Fraser, Louis	N.Y.	BS 1925, United States Naval Academy	
BS 1921, Massachusetts College of the City of New York		Griffith, Albert	Pa
Fraser, Cary Kate	D-C	Griffith, John	Pa
Fraser, Charles	D-C	Griffith, Joseph Francis	Ind
BS 1927, The George Washington University		Griffith, Norman Lee Dyer, Jr.	Ind
Fraser, Louis Leo	D-C	Griffith, Fred Olin	Ind
		Griffith, Stephen Edward	Ind
		Griffith, Ida	Tex
		AM 1942, The University of Texas	
		Griffith, John Lee	D-C
		Griffith, Albert William	N.Y.
		Griffith, William Hughes	Va
		Griffith, William	Mo
		BS 1925, Washington College	
		Griffith, Richard Edmund	I-C
		Griffith, Arnold Rex	Va
		Griffith, Arthur	N.Y.



George, George Ezekiel	Ohio	George, Franklin Pierce	Va.
A.B. 1943, Howard University		George, Louis Frederick	Va.
George, Henry Clyde	Ohio	George, Louis William	Va.
B.S. 1944, Mount Union College		B.S. 1944, University of Sydney College	
George, John Maurice	Va.	George, John William	Va.
George, Joseph Hemen	Mass.	George, Louise Hill	WVa.
George, Mark Vance	D.C.	George, Paul	D.C.
George, Ralph Frederick	D.C.	George, Philip Allen	D.C.
George, Robert Bennett	Va.	George, Wayne Lewis	Ind.
Georgeson, Helen Carolyn	D.C.	George, William Wilson, Jr.	Ind.
Georgeson, Joseph Douglas	D.C.	George, Mary Ernest	Md.
Georgeson, Theodore Alexander	N.Y.	George, Robert Russell	Va.
Georgeson, Stuart George	D.C.	B.S. 1946, United States Military Academy	
Georgeson, Robert Lee	D.C.	Georgeson, Margaret Mary	N.Y.
A.B. 1944, American University		A.B. 1945, University of New Rochester	
Georgeson, Susan Lee	D.C.	Georgeson, Charles Frederick	D.C.
B.C.F. 1944, The George Washington University		Georgeson, Edward Augustus	D.C.
Georgeson, Albert Bernard	Ohio	B.S. 1944, Georgia State College	
Georgeson, Dorothy Elizabeth	Ind.	Georgeson, Eugene Margaret	Ohio
Georgeson, Robert Bernard	Ill.	Georgeson, York William	D.C.
B.S. 1944, M.I.T., Northwestern University		A.B. 1947, The George Washington University	
Georgeson, William Franklin	D.C.	Georgeson, Nancy Ida	Md.
Georgeson, Melvin George	Md.	Georgeson, Katherine Suzanne, Jr.	Ind.
Georgeson, Frederick James	Va.	B.S. 1941, I.L.E. 1948, University of Florida	
Georgeson, Walter Andrew	D.C.	Georgeson, George Milton	Ind.
Georgeson, Linda	Md.	Georgeson, John Edward, Jr.	D.C.
Georgeson, Lee Lee	D.C.	Georgeson, Stephen Oswald	D.C.
B.A. 1947, College of the City of New York		Georgeson, Kenneth Eugene	Md.
Georgeson, Eugene	Va.	A.B. 1944, Iowa State Teachers College	
A.B. 1945, Pennsylvania State College		Georgeson, Wayne Richard	Md.
A.M. 1944, The George Washington University		Georgeson, Mary Florence	Va.
Georgeson, Anna Helen	D.C.	Georgeson, John Mackenzie, Jr.	Va.
Georgeson, Mary Jane	D.C.	Georgeson, Rex Hays	D.C.
Georgeson, James Robert	N.Y.	B.S. 1944, University of Maryland	
Georgeson, Louise Joseph	Ind.	Georgeson, Louis	N.Y.
Georgeson, Joseph David	N.Y.	A.B. 1944, Brooklyn College	
B.A. 1946, College of the City of New York		Georgeson, Irene Anne	D.C.
M.A. 1945, University of Pennsylvania		Georgeson, Eugene Wyl	Va.
Georgeson, Richard Gordon	Md.	A.B. 1946, The George Washington University	
Georgeson, Frank Henry	Pa.	Georgeson, John Margaret	Ind.
Georgeson, Robert Joseph	WVa.	Georgeson, Thomas Keith	Ind.
Georgeson, William Thomas	D.C.	Georgeson, Henry Francis	Md.
Georgeson, William Maxwell	Ind.	Georgeson, Robert Joseph	Ind.
Georgeson, Charles	D.C.	A.B. 1947, University of Oklahoma	
Georgeson, John	D.C.	H.F. 1946, Yale University	
B.S. 1944, College of the City of New York		Georgeson, William Henry	Ind.
Georgeson, Charles	N.Y.	Georgeson, Murray Edward	Ind.
Georgeson, Philip Sam	Va.	Georgeson, Albert Lynn	D.C.
Georgeson, David Emerson	Va.	Georgeson, Basil Leroy	D.C.
A.B. 1944, Mary Washington College		Georgeson, Thomas Monroe	Ind.
Georgeson, Thomas Charles	D.C.	Georgeson, Geraldine Jean	Ind.
Georgeson, John William	D.C.	Georgeson, James Edwin	Kent.
A.P. 1946, The George Washington University		Georgeson, Robert Joseph, Jr.	D.C.
Georgeson, Thomas Gerald	Md.	Georgeson, Katha Marie	Md.
Georgeson, Robert Lee	Va.	A.B. 1944, Wayne University	
Georgeson, Robert DeArmond	D.C.	H.F. 1945, University of Missouri	
A.B. 1946, The George Washington University		Georgeson, Nancy Jane	D.C.
Georgeson, Robert H.	D.C.	Georgeson, Nancy Hedberg	Mass.
B.S. 1942, Appalachian State Teachers College		Georgeson, William	Wash.
Georgeson, Robert Stewart	N.Y.	B.S. 1946, Washington Institute of Technology	
Georgeson, Anne Wendell	Calif.	Georgeson, Fred Peter	D.C.
Georgeson, John Gerald	Pa.	B.M.E. 1947, Catholic University of America	
Georgeson, Eugene Eugene	Md.	Georgeson, Homer	Va.
		Georgeson, Malcolm Donald	Md.
		Georgeson, Beatrice Van Name	N.Y.
		Georgeson, Charles	Va.



Glasgow, Robert Lewis	D.C.	Glasgow, Vivian Leah	MI
A.B. 1908, Yale University		Glasgow, Jan	D.C.
A.M. 1911, Columbia University		Glasgow, Jeanne Paraderburg	D.C.
Glass, Louis Vernon	Va.	Glass, Harry Benson	D.C.
Glass, Samuel Milton	Mass.	Glass, Seymour Harold	La.
Glass, Charles Francis	Pa.	A.B. 1911, Louisiana State University	
Glass, David Lawrence	Mass.	Glass, Mary Herbert	D.C.
Glass, Frederick M.	D.C.	Glass, Fred Henry	Va.
Glass, Francis Edward	N.Y.	Glass, Frederick John, Jr.	D.C.
Glass, Thomas Joseph	D.C.	Glass, George Leighton	D.C.
Glass, Robert Aime	Md.	Glass, George A.	Kans.
A.B. 1911, Reed College		A.B. 1911, St. Mary's College	
Glass, Frank Peter	Ill.	Glass, Arthur James	D.C.
B.S. 1917, M.D. 1920, Loyola College		Glass, Elmer Martin	Pa.
Glass, George Walter	Mo.		
Glass, John William	N.Y.		
Glass, Louis Richard	Ala.	Glass, Elmer Myron	W.Va.
Glass, William Lewis	Ill.	Glass, George M.	N.J.
A.B. 1912, University of Kansas		B.S. 1917, New Jersey State Teachers College, Trenton	
Glass, Frank Xavier	N.Y.	Glass, George N.	Va.
Glass, Samuel	D.C.	A.P. 1911, Missouri State Normal College	
Glass, Arthur Isaac	D.C.		
B.S. 1911, The George Washington University		Glass, Louis George	D.C.
Glass, Albert Michael	D.C.	Glass, John Richard	Pa.
Glass, Robert Arthur	MI	Glass, Lee Christopher	La.
Glass, Otto B.	Ca.	Glass, Ralph Ray	N.C.
Glass, Albert	D.C.	A.B. 1917, University of North Carolina	
Glass, David Kellner	D.C.	Glass, Ramsey	N.J.
Glass, David	D.C.	Glass, William A.	Pa.
Glass, Walter Kellner	D.C.	Glass, David H.	D.C.
Glass, M.	D.C.	B.S. 1918, Yale University	
Glass, Norman Ruth	D.C.	Glass, David Rave	D.C.
Glass, Norman Elton	Mass.	Glass, Richard	D.C.
Glass, Margaret H.	D.C.	Glass, Louis	N.J.
Glass, Frances Marie	D.C.	Glass, Walter	D.C.
Glass, Vincent Paul	D.C.	Glass, David M.	D.C.
Glass, John	Mass.	Glass, Walter Henry	D.C.
Glass, Helen Walter	N.J.	Glass, Arthur Robert	Pa.
Glass, Robert Allen	MI	Glass, Rufus George	N.C.
Glass, Thomas Martin, Jr.	MI	Glass, Charles Preston	D.C.
Glass, Harold Max	MI	Glass, Vincent Jackson	D.C.
Glass, Mary Eleanor	D.C.	Glass, John W.	D.C.
Glass, Norman	D.C.	Glass, S. H. Ford	D.C.
Glass, Robert	Va.	Glass, Sarah Elizabeth	Va.
Glass, John Slye		Glasgow, Sam	N.Y.
A.B. 1911, Southeastern Louisiana College		Glass, Mary Caroline	D.C.
Glass, Stuart Ray	D.C.	Glass, William Crawford	MI
Glass, Martin Paul	D.C.	Glass, Ivy Paul	N.Y.
Glass, Edward William, Jr.	D.C.	Glass, Joseph	Va.
Glass, Charles Monroe	D.C.	Glass, Robert Samuel	D.C.
Glass, Everett Russell	D.C.	Glass, Austin Leve	Mass.
A.B. 1918, Western College		Glass, Ernest Belter	Mass.
A.M. 1921, Johns Hopkins University		Glass, Solomon	D.C.
Glass, Joseph	N.J.	B.S. 1917, Wilson Teachers College	
Glass, Harry William	MI	Glass, William Lee	Va.
Glass, Robert Alce	D.C.	A.B. 1911, Mississippi State College for Women	
B.S. 1917, United States Naval Academy		Galwin, Rosa Ivy	N.Y.
Glass, Albert John Albert	D.C.	A.B. 1917, Hunter College	
Glass, Gerald Robert	D.C.	Gallagher, Laurence	Conn.
Glass, Stanley	N.Y.	Gallagher, Ray Henry	Pa.
Glass, Norman Milton	Md.	Gall, John Edgar	D.C.
B.S. 1914, University of Maryland		Gall, Thomas Lewis	D.C.
Glass, W. Richard Edworth	Ill.	Gallagher, Raymond Paul	D.C.
A.B. 1918, Bradley Polytechnic Institute		Gallagher, Thomas William	D.C.
Glass, George F.	Wish.	Gallagher, Boyce Hays	Ala.
Glass, R. H.	D.C.	A.M. 1917, Stanford University	
Glass, Lee	D.C.	Gallard, Louis Lee	D.C.
Glass, Thomas Ray	D.C.	Gallard, Louis Catherine	Ohio
Glassman, Gerald John	Tenn.	Gallard, Paul Raymond	N.Y.
	D.C.	Gallard, William Francis, Jr.	D.C.



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Gordon, Andrew Fraser	Va.	Grahowski, Edwin F.	Ill.
Gordon, Harold	D.C.	A.B. 1947, The George Washington University	
Gordon, Catherine Ann	D.C.	Grace, John Lamar	Ala.
Gordon, Louis H. Jones	D.C.	B.S. 1948, Harvard College	
H.B. 1948, The George Washington University		Grady, George Joseph	Ohio
Gordon, Eva Louise	Va.	Grady, John K. Kestore	D.C.
Gordon, Francis Gordon, Jr.	Va.	Grady, John David, Jr.	Va.
Gordon, Herbert Stephen	D.C.	Grady, Joseph William	R.I.
A.B. 1947, Indiana University		Graham, Martin A. Lee	D.C.
Gordon, James K. Rice	D.C.	Graham, Robert Morris	Va.
Gordon, James Howard	D.C.	Graham, Arthur Egan	N.Y.
Gordon, Mary Edward	D.C.	Graham, Edward Henry	D.C.
A.B. 1947, University of Virginia		Graham, Raymond Johnston	Va.
Gordon, G. L. Jr.	D.C.	Graham, George Ray	D.C.
Gordon, Ralph Hunter	La.	Graham, Mary Mary	Mich.
Gordon, Ronald August	Calif.	B.S. 1944, Western Michigan College	
Gordon, Stephen Howard	D.C.	Graham, Eugene Mae	Nebr.
Gordon, Stephen Eason	D.C.	A.B. 1948, University of Nebraska	
Gordon, Thomas	D.C.	Graham, Louis Mayer	S.C.
Gordon, Thomas Clifton	D.C.	Graham, Edward Ross	Pa.
Gordon, William Francis	Mass.	B.S. 1944, California State University	
Gordon, William Madison	Mass.	Graham, Louise Margarette	D.C.
B.S. 1947, University of		Graham, George Gordon, Jr.	D.C.
Ala.		Graham, John W. III	Va.
Gordon, Mary Augusta	D.C.	B.S. 1947, The George Washington University	
Gordon, William Frederick	D.C.	Graham, Robert Abbott	Tex.
Gordon, Edward J.	D.C.	Graham, William George	D.C.
Gordon, Charles Thomas	N.Y.	Graham, James	Mass.
Gordon, Frank E.	Mass.	B.S. 1947, Texas College	
Gordon, Robert Edgar	D.C.	Graham, Robert Joseph	Va.
Gordon, Frank Michael	D.C.	Graham, Arthur	D.C.
Gordon, Zigmund John	Mass.	Graham, James Louis	D.C.
B.S. 1947, Virginia College		B.S. 1947, F.F. 1948, AM 1948, University of Virginia	
Gordon, Arthur Lewis	Me.	Graham, Paul Paul	N.Y.
Gordon, Henry Harold	Va.	A.B. 1948, Kentucky College	
Gordon, Robert Lee	D.C.	Graham, Robert Eugene	Ill.
Gordon, Howard Stratton, Jr.	D.C.	Graham, George K. Lee	Tex.
Gordon, Ross Elmer	Me.	Graham, Louis Allen, Jr.	N.M.
Gordon, Howard Howard	Me.	B.A. 1947, University of Texas	
Gordon, Howard Samuel	Me.	Graham, Mark Thomas	Ind.
Gordon, Charles Elmer	N.Y.	Graham, Eugene James	N.I.
Gordon, Eugene Charles III	D.C.	Graham, Eugene James	D.C.
Gordon, Alexander Moore	Va.	Graham, George Russell	D.C.
Gordon, Mary Ann	D.C.	Graham, George Eugene	Va.
Gordon, Anne Louise	D.C.	Graham, George	Ill.
A.B. 1947, The George Washington University		B.S. 1947, United States Naval Academy	
Gordon, Mary Louise	N.Y.	MS. 1949, University of Missouri	
A.B. 1947, New York University		Graham, James Augustus	Va.
Gordon, Susan B.	D.C.	Graham, Louis Margaret	Me.
A.B. 1947, Hunter College		Graham, Edward J.	N.Y.
A.M. 1947, The George Washington University		Graham, Gerald William	N.I.
Gordon, William H. H.	D.C.	Graham, Scott Anne	Calif.
Gordon, Maria Harriet	D.C.	A.B. 1947, Army South College	
Gordon, Louis Elmer	Va.	A.M. 1947, Georgia University	
Gordon, Susan Catherine	D.C.	Graham, Robert James	D.C.
Gordon, Thomas	D.C.	B.S. 1947, F.F. 1948, Indiana University	
Gordon, George Morgan	N.Y.	Graham, Louis William	Me.
Gordon, Robert K. Kestore	Calif.	B.S. 1944, University of Missouri	
B.S. 1947, United States Naval Academy		Graham, Louis Paul	Pa.
A.M. 1947, Stanford University		Graham, Mark	D.C.
Gordon, William K. Kestore	Ohio	B.S. 1947, Fordham University	
Gordon, William Harry	Me.	Graham, Richard George	Va.
Gordon, Nicholas Peter	D.C.	B.S. 1947, University of Cincinnati	
Gordon, Louis Mae	Ill.	Graham, George Hubert	Va.
B.S. 1947, Illinois State University		Graham, Henry Russell	N.Y.
Gowers, Mary Ann	Utah	Graham, John R.	D.C.
		Graham, Joseph Paul	D.C.
		Graham, Lewis Lee	S.C.

Greene, Melvin A.	D.C.	Greene, Sidney	N.Y.
Greene, Thomas William	D.C.	Greene, E.S. 1925, College of the City of New York	Ind.
Greene, Thomas J.	D.C.	Greenfield, George Albert	N.Y.
Greene, John Gault	Va.	A.B. 1915, College of Idaho	N.Y.
Greene, Thomas G. Gaudin, Jr.	Va.	Greenfield, John William	N.Y.
Greene, John Frederick	D.C.	Greenfield, William	N.Y.
Greene, Kenneth Marvin	D.C.	Greenhouse, Tom	N.Y.
Greene, Lawrence James	Va.	Greenhouse, Samuel W.	N.Y.
Greene, Leonard Eugene	Va.	E.S. 1915, College of the City of New York	Ind.
Greene, John F.	Tex.	Greene, Robert Leonard	D.C.
U.S. 1925, United States Naval Academy		Greene, Thomas Marshall	D.C.
Greene, Philip Francis South	D.C.	E.S. in Ed. 1915, Western Teachers College	D.C.
U.B. 1925, Boston University		Greenfield, John Francis	D.C.
Greenfield, John G.	Wash.	E.S. 1915, United States Naval Academy	
E.S. 1915, College of Puget Sound		Greenhouse, Lawrence	D.C.
Greenhouse, Howard Avery	D.C.	Greenhouse, Fred S.	N.Y.
Greenhouse, Samuel Henry	Va.	Greenhouse, John	D.C.
Greenhouse, Arthur Eugene	D.C.	Greenhouse, Henry	Ind.
Greenhouse, Robert Carpenter	Ind.	Greenhouse, Norman Frank	Mass.
E.S. 1915, University of Idaho		Greenhouse, Robert Frederick	D.C.
Greenhouse, Mary Alice	D.C.	Greenhouse, Robert Marvin	N.Y.
Greenhouse, Ann Katherine	D.C.	Greenhouse, Sidney	
E.S. 1915, Western Teachers College		A.B. 1915, Brooklyn College	D.C.
Greenhouse, Arthur William	Ind.	Greenhouse, John	Va.
Greenhouse, Dallas Stanford	D.C.	Greenhouse, Arthur	Mass.
Greenhouse, Edward Harrison	D.C.	Greenhouse, Fred S.	N.Y.
Greenhouse, Paul Carroll	D.C.	Greenhouse, John	D.C.
Greenhouse, Eugene Wendell	Ind.	Greenhouse, Robert	Tex.
Greenhouse, George	Ind.	Greenhouse, Robert	Calif.
Greenhouse, Howard Arnold	N.Y.	A.B. 1915, University of California	
Greenhouse, John P.	Va.	at Los Angeles	
A.B. 1915, University of Kansas City		Greenhouse, John Gault	Ind.
Greenhouse, Leonard	D.C.	Greenhouse, John Gault	N.Y.
Greenhouse, Miss Frances	Va.	Greenhouse, John M.	D.C.
Greenhouse, Norman N. M.	N.Y.	Greenhouse, Thomas Alexander	D.C.
Greenhouse, Robert Henry	Ind.	A.B. 1915, College of William	
Greenhouse, Robert William	Va.	Greenhouse, John Gault	Ind.
Greenhouse, Samuel	D.C.	Greenhouse, John Gault	Ind.
Greenhouse, Thomas Francis	Ind.	Greenhouse, Thomas Henry	N.Y.
E.S. 1915, University of Maryland		Greenhouse, William Frederick	N.Y.
Greenhouse, William A.	D.C.	Greenhouse, Albert Henry	Va.
Greenhouse, William A.	D.C.	Greenhouse, Mary Margaret	Ind.
Greenhouse, George Robert	Ind.	Greenhouse, John Gault	Ind.
Greenhouse, Robert Kemp	Va.	E.S. 1915, M.S. 1915, University of California	
Greenhouse, Blaise Jones	D.C.	Greenhouse, William Gault	N.Y.
Greenhouse, Richard Lewis	Ind.	E.S. 1915, Missouri State Teachers College	
Greenhouse, Richard	D.C.	A.M. 1915, George Peck College	
Greenhouse, Thomas Leonard	D.C.	at Toronto	
Greenhouse, Victor	D.C.	Greenhouse, George May	Ind.
E.S. 1915, Western Teachers College		Greenhouse, Thomas Noll Felt	D.C.
Greenhouse, Miss Rosemary	Mass.	P.H.D. 1915, University of Michigan	
U.B. 1915, Boston University		Greenhouse, Robert Kemp	D.C.
Greenhouse, S. S.	Mass.	Greenhouse, John Gault	Ind.
E.S. 1915, Massachusetts State College		Greenhouse, John Gault	Ind.
Greenhouse, Robert Sydney	D.C.	Greenhouse, John Gault	Ind.
Greenhouse, John Long	Calif.	Greenhouse, John Gault	Ind.
E.S. 1915, Teachers College of Connecticut		Greenhouse, John Gault	Ind.
Greenhouse, John F.	N.Y.	Greenhouse, John Gault	Ind.
Greenhouse, Lilian Allen	D.C.	Greenhouse, John Gault	Ind.
Greenhouse, Paul Kenneth	Calif.	Greenhouse, John Gault	Ind.
Greenhouse, Kenneth Victoria	Va.	Greenhouse, John Gault	Ind.
A.B. 1915, Eastern Nazarene College		Greenhouse, John Gault	Ind.
Greenhouse, John Lester	D.C.	Greenhouse, John Gault	Ind.
Greenhouse, Nola Frances	S.C.	Greenhouse, John Gault	Ind.
E.S. 1915, Catholic University of America		Greenhouse, John Gault	Ind.
Greenhouse, Robert Lewis	Ind.	Greenhouse, John Gault	Ind.
A.B. 1915, The George Washington University		Greenhouse, John Gault	Ind.
Greenhouse, Robert Ellis	Ind.	Greenhouse, John Gault	Ind.



Geddes, Willard Earl	N.Y.	Groves, Albert	Mich.
Geddes, Benjamin Roberts	Va.	Grove, Gerald Richard	D.C.
Geddes, Donald Linn	N.J.	Groves, Nancy Alice	D.C.
Geddes, Eugene Everett	Tenn.	Groves, Stanley Carley	D.C.
A.B. 1928, The George Washington University		Groves, Stephen	Nebr.
A.M. 1928, Columbia University		Groves, Vander David	Va.
Geddes, George Milton	D.C.	Groves, Nancy Jane	Pa.
Geddes, Leta Evelyn	Va.	A.B. 1946, College of William and Mary	
Geddes, R. Ross Elizabeth	Mass.	Gudwin, Shirley Marie	Ill.
Geddes, Mary Louise	D.C.	Gudwin, Eli	Va.
Geddes, Mary Georgia	Va.	A.B. LL.B. 1929, The George Washington University	
Geddes, T. J. 1927	D.C.	Gudwin, Joseph Louise	Ill.
A.B. 1927, Brooklyn College		Gudwin, Richard Nelson	Fla.
Geddes, Morris Morton	D.C.	Gudwin, Maurice	D.C.
A.B. 1927, College of the City of New York		Gudwin, Elmer	Fla.
Geddes, Louis Donald	D.C.	Gudwin, R. Paul Carl	D.C.
B.S. 1928, M.S. 1946, Kansas State College		Gudwin, Robert Lockwood	D.C.
Geddes, Fred Joseph	Ohio	Gudwin, Charles Claude	D.C.
Geddes, John Lester	Va.	Gudwin, William John	Md.
Geddes, John Francis	D.C.	B.S. 1918, Pennsylvania State College	
Geddes, William M. Jr.	N.Y.	Gudwin, John Joseph	Pa.
B.S. 1924, Wagner Memorial Lutheran College		Gudwin, Daniel Edward	D.C.
Geddes, William Wright	Va.	Gudwin, Bernard K.	D.C.
Geddes, Flora Taylor	Md.	Gudwin, Charles Lowell	N.Y.
A.B. 1927, Shepherd College		Gudwin, Arthur Avel	Tex.
A.B. 1927, College of Wooster	Ohio	Gudwin, William Samuel, Jr.	Va.
Geddes, Robert John		Gudwin, Margaret	D.C.
Geddes, George B.	Kans.	Gudwin, George Chas.	D.C.
Geddes, John Robert	D.C.	Gudwin, George Henry Monte	D.C.
Geddes, Howard Richard	D.C.	Gudwin, Vernon Lee	D.C.
Geddes, John Morris	N.Y.	A.B. 1919, University of California	
Geddes, Charles Robert	N.J.	Gudwin, Mary Harriet	D.C.
Geddes, Fred Marjorie	Cal.	Gudwin, Joseph Alexander	Ohio
Geddes, Alexander	D.C.	A.B. 1911, LL.B. 1913, Western Reserve University	
Geddes, John James	D.C.	Gudwin, William Angelo	Nebr.
Geddes, William	N.J.	A.B. 1929, University of Nebraska	
B.S. 1924, Rutgers University		Gudwin, Ralph Thomas	Va.
Geddes, Barton	N.Y.	B.S. 1921, Temple University	D.C.
Geddes, Elmer	N.Y.	B.S. 1921, The George Washington University	
Geddes, Roy Edward	D.C.	Gudwin, Helen Read	D.C.
Geddes, William Roger	D.C.	A.B. 1928, The George Washington University	
Geddes, Charles Joseph	D.C.	Gudwin, Edward John	N.Y.
B.S. 1941, The George Washington University		Gudwin, Robert Thomas	Va.
Geddes, John Henry	Va.	Gudwin, Anne Elmer	Ohio
Geddes, Roy Ellen	D.C.	Gudwin, Arthur Elmer	N.Y.
Geddes, John	D.C.	B.S. 1921, New York University	
Geddes, William Barton	W.Va.	Gudwin, J. C. Howard	Ill.
Geddes, Anne Elizabeth	D.C.	Gudwin, William May	Ill.
Geddes, Kenneth Stanley	Va.	B.S. 1927, United States Naval Academy	
Geddes, Mary	N.Y.	Gudwin, Ann Derby	Md.
Geddes, William, Jr.	W.Va.	Gudwin, U. S. Lee	Md.
Geddes, Thomas Ralph	Va.	Gudwin, Rex Carter	N.Y.
Geddes, G. J. William, Jr.	D.C.	Gudwin, Charles Anthony	N.J.
Geddes, George L.	D.C.	Gudwin, Stephen David	N.Y.
Geddes, George	D.C.	Gudwin, L. J. Joseph	Kans.
B.S. 1941, A.M. 1943, University of Virginia		A.B. 1927, University of Kansas	
Geddes, Anne Florence	D.C.	Gudwin, Robert May	D.C.
Geddes, Louis O. Hanson	Va.	Gudwin, Thomas Leonard	D.C.
Geddes, John Francis, Jr.	Va.	A.B. 1927, Potomac College	
B.S. 1927, U. S. Navy, Virginia Polytechnic Institute		Gudwin, Fred	D.C.
Geddes, John Wayner	Md.	B.S. 1921, College of the City of New York	
		Gudwin, Robert Francis	Va.
		Gudwin, Mary M. M. Jr.	D.C.
		Gudwin, Louis MacHado	D.C.



Quastman, David Warren	Ill.	Hart, David Kenneth	W. Va.
Quastman, John Olin	D.C.	Hart, Edward Kirk	N.Y.
Quastman, Joseph James	N.Y.	Hart, Harold	N.Y.
AB 1927, University of Wisconsin		B.S. 1927, C.E. 1927, Purdue	
Quastman, Matthew Faye	Mass.	University	
AB 1927, Rhode Island College		Hart, Donald James	Vi.
Quastman, Thomas Hartwig	MI	Hart, Harry H.	MI
Quastman, William Langley, Jr.	Mo.	B.S. 1927, M.D. 1927, M.D. 1927,	
Quastman, John Everette, Jr.	Vi.	University of Michigan	
Quastman, John Stanley	D.C.	Hart, William Thomas	N.Y.
Quastman, Walter Martin, Jr.	D.C.	Hart, Arthur Ross	N.Y.
Quastman, Roy	Ill.	Hart, Thomas G. 1927	Vi.
Quastman, Oliver Robert	MI	Hart, Richard Edgar	MI
AB 1927, University of Maryland		Hart, Donald Jackson	Vi.
Quastman, Norman Roy	D.C.	Hartman, Margaret Kathryn	N.C.
Quastman, Thomas Summers	MI	Hart, Charles May	N.Y.
		Hart, Elmer E.	N.Y.
H		Hart, Louis Thomas	D.C.
Hack, Clifford William	D.C.	Hart, Nancy Frances	Ill.
Hack, L. L. 1927	D.C.	Hart, William Robert	Ill.
AB 1927, The George Washington		Hart, William	Ill.
University		Hart, Louis Allen	N.Y.
Hack, James Cameron	MI	Hart, Peter John	N.Y.
Hackman, Fred Francis	Ill.	Hart, Thomas Henry	Ill.
Hall, Betty Ann	D.C.	B.S. 1927, Union State Normal	
Hall, Edward William	N.Y.	University	
AB 1927, St. Thomas Seminary		M.S. 1927, Massachusetts Institute	
Hall, Gladys Margaret	D.C.	of Technology	
Hall, Walter Joseph	Pa.	Hart, Victor Lewis	Ill.
Hall, Walter George	N.Y.	U.B. 1927, National University	
Hallman, David Joseph	MI	Hart, Walter George	Cal.
Hallman, Donald Edward	Mo.	Hart, Albert	N.Y.
Hall, Donald Joseph	RI	Hart, Arthur Henry	N.Y.
U.S. 1927, Maryland Law		Hart, Arthur John	N.Y.
B.S. 1927, University of Maryland		Hart, Roger Martin	MI
A.M. 1927, The George Washington		Hart, George Frederick	D.C.
University		Hart, E. Parker	D.C.
Hall, M. J. Foster	MI	Hart, Edward Howard	D.C.
Hallman, Raymond Anthony	Vi.	Hart, Louis Earl Hendrix	Ill.
Hallman, Robert	Ill.	Hart, Raymond Eugene	N.Y.
Hallman, George Morris	Vi.	Hart, John Lewis, Jr.	Pa.
Hallman, Frank Lloyd	Vi.	Hart, James Lewis	Pa.
Hall, Henry Lynde	Wa.	AB 1927, Butler University	
A.B. 1927, State Teachers College,		Hart, Louis Martin	Pa.
Superior, Wis.		Hart, Louis Thomas	MI
A.M. 1927, University of Minnesota		Hart, Louis	MI
Hallman, Robert James	Kan.	AB 1927, Ballou College	
Hallman, William Walter	Ill.	Hart, Louis, Washington, Jr.	D.C.
B.S. 1927, Case School of Applied		Hart, Louis King	W. Va.
Science		Hart, Alexander Foreigner	D.C.
Hall, William Joseph	MI	Hart, Louis James	D.C.
P.B. 1927, University of Detroit		Hart, Louis Martin	S.D.
Hallman, Charles	D.C.	AB 1927, University of South	
Hallman, Robert Lee	D.C.	Florida	
Hall, Donald Monroe	Mo.	Hart, Mary Anna	Pa.
AB 1927, Washington University		Hart, Robert	Vi.
B.S. 1927, L.S. 1927, University of		Hart, William Jackson	MI
Illinois		Hart, William V.	Pa.
Hall, Louis May	D.C.	Hartman, Eugene Van, Jr.	Pa.
Hall, Louis Betty	D.C.	AB 1927, University of Florida	
Hallman, John	D.C.	Hartman, George Kenneth	Vi.
Hallman, M. Lawrence Sully	Ky.	Hartman, Louis Frank	Cal.
AB 1927, Smith College		AB 1927, Southern University	
Hall, Alvin D.	D.C.	Hartman, William Paul	Vi.
AB 1927, Central State College,		Hartman, James Edward	Pa.
Cal.		Hartman, Louis Amy	D.C.
Hall, Norman Story	Okla.	Hartman, Louis	D.C.
AB 1927, Central State College,		AB 1927, The George Washington	
Cal.		University	
Hall, Harold Howard	Kan.	Hartman, Hiram Victor	Pa.
AB 1927, Kansas Wesleyan		B.S. 1927, New York University	
University		Hartman, LeRoy Thomas	S.D.

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Hardin, James Thomas	Va	Harrison, Joseph Michael	D.C.
B.S. 1940, United States Naval Academy		A.B. 1942, State University of Iowa	Iowa
Harris, Margaret Elizabeth	MI	Harrison, Mary Ellen	
B.S. 1942, University of Iowa		A.B. 1942, State University of Iowa	Iowa
Harris, William Gerald	La	Harrison, Mary Ann Young	Iowa
B.S. 1942, University of Maryland		A.B. 1942, University of Maryland	N.Y.
Harris, William George, Jr.	Va	Harrison, Robert Vance	N.Y.
B.S. 1942, University of Oregon	Wash	Harrison, Benjamin Thompson	Va
Hart, Harry Benson	S.C.	Hart, Benjamin	Va
Hart, James Donald	D.C.	A.B. 1942, Penn. College	
A.B. 1942, A.M. 1947, West Virginia University		Hart, Martha Leeson	Va
Hart, Charles Thomas	Va	Hart, Bertha Phyllis	D.C.
B.S. 1942, The George Washington University		Hart, Charles Edward	Va
Hart, James Robert	MI	B.S. 1942, University of Kentucky	
Hart, Albert Michael	Va	Hart, Charles Marshall, Jr.	Iowa
B.S. 1942, The George Washington University		Hart, Charles August	D.C.
Hart, William	W	B.S. 1942, Medical College	
A.B. 1942, Mount St. Mary College		Hart, Charles Myers	Iowa
Hart, John	Va	Hart, Charles August	N.Y.
Hart, James William	Va	Hart, Charles August	N.Y.
D.S. 1942, Indiana College		Hart, Charles August	N.Y.
Hart, Robert Ellis	MI	Hart, Charles August	N.Y.
Hart, William Donald	Va	Hart, Charles August	N.Y.
Hart, John George	Va	Hart, Charles August	N.Y.
Hart, Mark Lewis	Va	Hart, Charles August	N.Y.
Hart, John Patrick	D.C.	Hart, Charles August	N.Y.
Hart, James George	Va	Hart, Charles August	N.Y.
A.B. 1942, Washington and Lee University		Hart, Charles August	N.Y.
Hart, John	Pa	Hart, Charles August	N.Y.
Hart, John Robert	Ia	Hart, Charles August	N.Y.
Hart, Albert Michael	MI	Hart, Charles August	N.Y.
A.B. 1942, Central University		Hart, Charles August	N.Y.
Hart, John Nelson	Chi	Hart, Charles August	N.Y.
A.B. 1942, A.M. 1947, University of Illinois		Hart, Charles August	N.Y.
Hart, Matthew Helen	MI	Hart, Charles August	N.Y.
B.S. 1942, Washington College		Hart, Charles August	N.Y.
Hart, Mark		Hart, Charles August	N.Y.
A.M. 1942, Central Pacific College		Hart, Charles August	N.Y.
Hart, Robert Thomas	D.C.	Hart, Charles August	N.Y.
Hart, Robert Thomas, Jr.	D.C.	Hart, Charles August	N.Y.
Hart, John Lee	Ia	Hart, Charles August	N.Y.
Hart, John George	N.Y.	Hart, Charles August	N.Y.
Hart, Robert E. Hall	D.C.	Hart, Charles August	N.Y.
B.S. 1942, University of Maryland		Hart, Charles August	N.Y.
Hart, Robert Edward	D.C.	Hart, Charles August	N.Y.
Hart, Harold George	Ia	Hart, Charles August	N.Y.
B.S. 1942, United States Naval Academy		Hart, Charles August	N.Y.
Hart, Thomas	D.C.	Hart, Charles August	N.Y.
Hart, John Robert	Chi	Hart, Charles August	N.Y.
Hart, Leonard Martin	Ia	Hart, Charles August	N.Y.
A.B. 1942, University of South Carolina		Hart, Charles August	N.Y.
Hart, Leslie Y.	D.C.	Hart, Charles August	N.Y.
Hart, Robert Edward	D.C.	Hart, Charles August	N.Y.
Hart, Robert George	Ia	Hart, Charles August	N.Y.
Hart, Louis A. Roberts	D.C.	Hart, Charles August	N.Y.
Hart, James John	Va	Hart, Charles August	N.Y.
A.B. 1942, M.A. Washington College	W.Va	Hart, Charles August	N.Y.
Hart, John William	Chi	Hart, Charles August	N.Y.
Hart, John William	Chi	Hart, Charles August	N.Y.
B.S. 1942, University of South Carolina		Hart, Charles August	N.Y.
Hart, Charles William, Jr.	Wash	Hart, Charles August	N.Y.
Hart, John William, Jr.	D.C.	Hart, Charles August	N.Y.







Haves, Harold Francis	N.Y.	Haver, H. H. 1888	
H.A.B. 1891, St. Lawrence College		Hawkins, Joseph	N.Y.
Haves, James Martin	Ala.	Hawkins, Joseph	N.Y.
Haves, Jewel Ann	D.C.	Hawkins, Charles Elmer, Jr.	D.C.
Haves, Joe	Va.	Hawkins, Howard	D.C.
Haves, John Saylor	Pa.	Hawley, Edward George	D.C.
Haves, John William	Va.	Hawley, Henry Vincent	D.C.
Haves, Joseph Edward	Ohio	Hawley, Thomas Philip	W.Va.
Hayer, Maurice Israelson	Va.	Hawley, George Henry	D.C.
Hayer, Robert W.	Va.	Hawley, N. O.	W.Va.
H.A.B. 1893, Columbia University		H.A.B. 1894, Marshall College	
Hayer, Sam Taylor	Va.	Hayer, Lester Carl	D.C.
H.B.S. 1912, Syracuse University		B.S. 1917, United States Naval	
Hayer, William C.	Ohio	A. B. 1918	
H.A.B. 1894, Yale University		Hayer, Joseph Russell	M.
Hayer, George Fred. Jr.	D.C.	Hayer, William James	M.
Hayer, Basil	Va.	Hayer, W. M. 1900	Va.
Hayer, John Schwartz	D.C.	A.B. 1901, Ohio College	
Hayer, Henry	D.C.	Hayer, George Lincoln	D.C.
Hayer, Joseph A. 1900, University		Hayer, Norman Gordon	D.C.
Hayer, Albert Franklin	Tenn.	Hayer, John Carl	D.C.
Hayer, George St. George	D.C.	Hayer, Cecil Carter	Ohio
Hayer, Edward George	D.C.	Hayer, Sam Lane	D.C.
Hayer, Norman Fred	Va.	Hayer, William Carl	D.C.
Hayer, Roy	Mo.	Hayer, Roy	D.C.
Hayer, Robert Walter, Jr.	D.C.	Hayer, Christine Simpson	Va.
Hayer, Jesse Robert	D.C.	Hayer, Earl James	Ohio
H.A.B. 1891, D.R.C.	D.C.	Hayer, Ernest Raymond	Tenn.
A.B. 1894, The George Washington		Hayer, Milton	D.C.
University		Hayer, Sam Roy	D.C.
H.A.B. 1894, Princeton College	N.Y.	B.S. 1907, Pennsylvania State	
Hayer, Arthur Thomas	Va.	University, East Stroudsburg	
Hayer, Virginia Estelle	Va.	Hayer, Norman Harold	D.C.
Hayer, Vera Eda	Mo.	Hawkins, Robert Conrad	Pa.
Hayer, Virginia	D.C.	A.B. 1901, Ford College	
Hayer, Mosley Wayne	Va.	Hawkins, David Keith	D.C.
H.A.B. 1891, Virginia	D.C.	Hawkins, Ann Eliza	D.C.
Hayer, Ann Jane	D.C.	Hawkins, Gordon Archer	Mo.
Hayer, Clara Walter	Tenn.	Hawkins, Charles Thomas	Va.
Hayer, Vincent Joseph	D.C.	Hawkins, Jerome	D.C.
Hayer, William Knight	Pa.	Hawkins, John H.	Ky.
A.B. 1891, Western College		Hawkins, John Edward	N.J.
Hayer, Thomas Laird	W.	B.S. 1907, University of Kansas	
Hayer, Thomas Gordon	N.I.	Hawkins, William Robert	Pa.
Hayer, Nancy Edgar	Pa.	A.B. 1911, Indiana University	
A.B. 1911, Western College		Hawkins, M. J.	Mo.
Hayer, William Taylor	N.C.	B.S. 1907, Indiana University	
Hayer, William Walter	N.I.	A.M. 1907, The George Washington	
Hayer, William Stewart	D.C.	University	
B.S. 1911, DePaul Institute of		Hayer, Henry Simpson	D.C.
Education		A.B. 1911, Western College	
Hayer, Victor Harold	D.C.	Hayer, Leonard	D.C.
Hayer, Paul Harold	Mo.	Hayer, George William	Pa.
Hayer, Anna Kathryn	D.C.	B.S. 1911, Ohio Wesleyan School	
Hayer, Henry Walter	Mo.	Hayer, George	
Hayer, George	N.C.	Hayer, Mary Lou	Mo.
Hayer, Joseph A. 1901, Army	N.P.	Hayer, John Henry	Tenn.
Hayer, George Washington	D.C.	Hayer, William James	D.C.
Hayer, John Vernon	D.C.	Hayer, Henry Henry	D.C.
Hayer, Kenneth David	D.C.	A.B. 1911, New York University	
Hayer, Philip Arthur	Mo.	Hayer, William Arthur Jr.	Va.
Hayer, David Thomas	D.C.	Ph.D. 1911	Mo.
Hayer, Robert Thomas	D.C.	Hayer, George Lee	Mo.
Hayer, Robert Howard	Va.	Hayer, George Maxwell	D.C.
Hayer, George M.	D.C.	Hayer, John Neil	D.C.
Hayer, Robert Henry	D.C.	Hayer, James Lawrence	Va.
Hayer, Arthur Edward	N.Y.	B.A. 1911, United States Naval	
Hayer, Mary Ann	Pa.	Academy	
Hayer, Joseph Smith	N.Y.	Hayer, John Henry	D.C.
Hayer, Harold Harold	D.C.	B.S. 1911, Northwestern University	
		Hawkins, E. J. 1901, Glenside	D.C.
		Hawkins, A. J. 1901, Glenside	Mass.



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Hansen, Sam	D.C.	Hansen, R. R. and Hilde, Jr.	Conn.
Hansen, Vernon Van Cleave	Va.	H.S. 1911, Syracuse University	
Hart, James, State University		Hart, William Donald	N.Y.
Hartman, Eugene Mosker	W.Va.	Hartman, Howard	
Hartman, Louis Cecil	D.C.	Hartman, Lewis Lowell	D.C.
Hartman, Robert Joseph	D.C.	A.B. 1917, The George Washington	
Hartman, Arthur Dale	Low	University	
Hartman, Robert Lee	D.C.	Hartman, Louis Detmer Warren	N.C.
B.S. 1914, Texas		Hartman, Robert F.	Conn.
Hartman, James Martin	D.C.	Hartman, Charles Andrew	Pa.
Hartman, James	D.C.	Hartman, Charles F.	Ind.
B.S. 1914, United States Naval		Hartman, Harry William	D.C.
Academy		Hartman, Louis Thomas	D.C.
Hartman, John Ben.	Mo.	Hartman, Louis Martin Jr.	Va.
Hartman, John Howard	D.C.	Hartman, Louis	D.C.
Hartman, Robert Leonard	Va.	Hartman, Alexander	
Hartman, Robert K.	Tex.	A.B. 1914, East Carolina State	
Hartman, Samuel H.		University	
Hartman, Samuel M.	N.Y.	Hartman, Robert Joseph	N.H.
Hartman, William John Jr.	D.C.	Hartman, George William	S.C.
Hartman, William Keith	N.C.	A.B. 1914, East Carolina College S.C.	
Hartman, William Richard	N.C.	Hartman, Frank Niles	Pa.
Hartman, Allen M.	D.C.	Hartman, George F. Elmer Thomas	
Hartman, George William	D.C.	Hartman, George A.	D.C.
B.S. 1914, The George Washington		Hartman, Louis M.	W.Va.
University		Hartman, Robert M.	Va.
Hartman, William	D.C.	Hartman, M. L.	N.C.
Hartman, David M.	D.C.	Hartman, M. L.	Va.
Hartman, James M.	N.C.	Hartman, M. L.	D.C.
Hartman, James L.	Va.	Hartman, R. K. H.	D.C.
Hartman, Arthur Joseph	Ohio	Hartman, R. K. H.	D.C.
Hartman, George	D.C.	Hartman, R. K. H.	D.C.
Hartman, George King	D.C.	Hartman, R. K. H.	D.C.
Hartman, George		Hartman, R. K. H.	D.C.
A.B. 1914, Mount Mansfield State		Hartman, R. K. H.	D.C.
University		Hartman, R. K. H.	D.C.
A.M. 1917, The George Washington		Hartman, R. K. H.	D.C.
University		Hartman, R. K. H.	D.C.
Hartman, George Benjamin	Me.	Hartman, R. K. H.	D.C.
Hartman, George	D.C.	Hartman, R. K. H.	D.C.
Hartman, George	D.C.	Hartman, R. K. H.	D.C.
Hartman, George	N.H.	Hartman, R. K. H.	D.C.
Hartman, George	Me.	Hartman, R. K. H.	D.C.
Hartman, George	D.C.	Hartman, R. K. H.	D.C.
Hartman, George	D.C.	Hartman, R. K. H.	D.C.
A.B. 1914, Tennessee University		Hartman, R. K. H.	D.C.
Hartman, George	D.C.	Hartman, R. K. H.	D.C.
Hartman, George	Va.	Hartman, R. K. H.	D.C.
A.B. 1914, Yale University		Hartman, R. K. H.	D.C.
Hartman, George	D.C.	Hartman, R. K. H.	D.C.
Hartman, George	D.C.	Hartman, R. K. H.	D.C.
Hartman, George	D.C.	Hartman, R. K. H.	D.C.
B.S. 1914, United States Military		Hartman, R. K. H.	D.C.
Academy		Hartman, R. K. H.	D.C.
Hartman, John	Me.	Hartman, R. K. H.	D.C.
B.S. 1914, Middlebury College		Hartman, R. K. H.	D.C.
A.M. 1917, Connecticut University		Hartman, R. K. H.	D.C.
Hartman, William George	N.Y.	Hartman, R. K. H.	D.C.
Hartman, John George	Ohio	Hartman, R. K. H.	D.C.
Hartman, John	D.C.	Hartman, R. K. H.	D.C.
A.B. 1914, Central Baptist Institute		Hartman, R. K. H.	D.C.
on Ohio		Hartman, R. K. H.	D.C.
Hartman, John Y.	Conn.	Hartman, R. K. H.	D.C.
Hartman, John Francis	N.H.	Hartman, R. K. H.	D.C.
Hartman, John William	Va.	Hartman, R. K. H.	D.C.
Hartman, John		Hartman, R. K. H.	D.C.
A.B. 1914, Tennessee State Teachers		Hartman, R. K. H.	D.C.
College		Hartman, R. K. H.	D.C.
Hartman, Allen M.	D.C.	Hartman, R. K. H.	D.C.
A.B. 1914, Central University		Hartman, R. K. H.	D.C.
Hartman, M.	Ind.	Hartman, R. K. H.	D.C.

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Jolly, David Stanley	N.J.	Jolly, Albert Cassius	D.C.
A.B. 1944, University of Michigan		Jolly, Albert Cassius	D.C.
Jolly, Susan Arden	N.J.	Jolly, Susan Mary	Va.
A.B. 1948, The George Washington University		A.B. 1944, Pennock-Willow College	
Jolly, Mary	D.C.	Jolly, John J.	D.C.
Jolly, Susan Guillermo	D.C.	B.S. 1947, University of Maryland	
Jolly, Anne	D.C.	Jolly, Albert Lee	D.C.
Jolly, John Joseph	Me.	Jolly, Albert	D.C.
Jones, Robert	Tenn.	Jolly, John	D.C.
A.B. 1948, Vanderbilt University		Jones, Joseph Francis	Pa.
Jones, A. H. H. Jones	D.C.	B.S. 1944, United States Naval Academy	
A.B. 1941, The George Washington University		Jones, William Murray	Va.
Jones, John Lee	D.C.	Jones, Albert Albert	Ind.
Jones, Francis Russell	W.Va.	Jones, George John Jr.	Va.
Jones, Francis Russell	D.C.	Jones, John LaRue	Pa.
Jones, Harold Victor	Me.	Jones, George Martin	D.C.
Jones, Fred T.	D.C.	Jones, Kenneth Arthur	D.C.
Jones, Michael F.	D.C.	Jones, George	D.C.
Jones, Paul Marshall	D.C.	Jones, Henry Lawrence	D.C.
Jones, Robert White	D.C.	Jones, Thomas Robert Jr.	Me.
Jones, Walter Franklin	D.C.	B.S. 1944, Princeton and Marshall College	
B.S. 1947, University of Illinois		Jones, Mary Patricia	Va.
Jones, John Albert Norton	D.C.	Jones, John	Va.
Jones, N. I.	N.I.	Jones, John M. Jr.	Va.
Jones, David George	D.C.	Jones, George Wesley	N.C.
A.B. 1944, St. John's College		A.B. 1944, St. John's College	
Jones, Elizabeth T.	Me.	Jones, John	D.C.
A.B. 1944, St. John's College		Jones, John Murray	D.C.
Jones, William A.	D.C.	Jones, Mary	D.C.
Jones, William A.	S.D.	Jones, William Lee	D.C.
Jones, Francis Frederick Jr.	D.C.	Jones, John	Pa.
Jones, Fred Earl	N.Y.	A.B. 1944, University of Pennsylvania	
Jones, Louis Andrew	N.I.	Jones, John H.	N.C.
Jones, Louis Margaret	Me.	Jones, John H.	D.C.
A.B. 1944, University of North Carolina		Jones, John Andrew Jr.	D.C.
M.A. 1944, University of Missouri		Jones, Robert Lee	N.C.
Jones, John A.	Va.	Jones, Robert	Va.
Jones, John A.	D.C.	Jones, William	W.Va.
Jones, John A.	D.C.	B.S. 1944, Pennsylvania State College	
Jones, John A.	D.C.	Jones, John	D.C.
Jones, John A.	Va.	Jones, Robert Francis	Pa.
Jones, John A.	N.Y.	Jones, John H.	Pa.
A.B. 1944, Wesleyan University		Jones, John H.	Va.
A.M. 1944, Columbia University		Jones, John H.	Tenn.
Jones, John A.	D.C.	Jones, John H.	Va.
Jones, John A.	N.Y.	Jones, John H.	N.Y.
Jones, John A.	Pa.	Jones, John H.	Pa.
Jones, John A.	N.Y.	Jones, John H.	Va.
Jones, John A.	N.Y.	Jones, John H.	Me.
Jones, John A.	Va.	Jones, John H.	Me.
B.S. 1944, Newark College		Jones, John H.	Me.
Jones, John A.	Me.	Jones, John H.	Me.
B.S. 1944, United States Naval Academy		Jones, John H.	Me.
Jones, John A.	D.C.	Jones, John H.	Me.
Jones, John A.	D.C.	Jones, John H.	Me.
Jones, John A.	N.C.	Jones, John H.	Me.
Jones, John A.	Pa.	Jones, John H.	Me.
Jones, John A.	Me.	Jones, John H.	Me.
Jones, John A.	Va.	Jones, John H.	Me.
Jones, John A.	Tenn.	Jones, John H.	Me.
Jones, John A.	D.C.	Jones, John H.	Me.
A.B. 1944, University of Miami		Jones, John H.	Me.
Jones, John A.	D.C.	Jones, John H.	Me.
Jones, John A.	D.C.	Jones, John H.	Me.
Jones, John A.	D.C.	Jones, John H.	Me.
Jones, John A.	Va.	Jones, John H.	Me.
B.S. 1944, New York University		Jones, John H.	Me.
Jeffrey, Charles Thomas	D.C.	Jones, John H.	Me.



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Kauffman, Charles Lawrence	Va	Kell, Horace Joseph	Kans.
Kauffman, John William	D.C.	Kell, 1949, The George Washington University	
Kauffman, Arnold	D.C.	Keller, Rainer Edwin III	D.C.
Kauffman, Bernard	N.Y.	Keller, Louis Austin	Mo.
Kauffman, Duane Willard	Pa.	A.B. 1941, B.S. 1925, University of Kansas City	
B.S. 1941, Pennsylvania State University		Kell, Louis William	Va
Teachers College, Clarion		B.S. 1942, University of Maryland	
Kauffman, Henry Louis	D.C.	Kell, John Joseph	D.C.
Kauffman, Marvin	Va	B.S. 1944, Agricultural and Mechanical College of Texas	
B.S. 1941, Madison College		Kell, John R.	N.C.
Kauffman, Nathan	D.C.	Kellner, David	Tex.
Kauffman, Sidney Samuel	N.Y.	A.B. 1927, University of Delaware	
Kauffman, Vera Lee	D.C.	A.M. 1925, Columbia University	
Kauffman, Edward Irving	D.C.	Kellner, Leonard Richard	Pa.
Kauffman, Horace Joseph	Va	Keller, Arthur Norman	Pa.
Kauffman, Constantine	Sum	Keller, Arnold M.	Pa.
Kauffman, Charles Ann	D.C.	Keller, Ernest Harold	Pa.
Keller, Robert Moore	Mo.	Keller, Ernest Thomas	Calif.
Keller, James Francis	D.C.	Keller, James Michael	N.Y.
Keller, Robert Agnes Ruth	D.C.	Keller, Martin Maurice	W.Va.
Keller, Samuel	D.C.	Keller, Mary Louise	Mo.
B.S. 1941, M.S. 1949, College of the City of New York		Keller, Philip Joseph, Jr.	Tex.
Ray, Edwin Jerome	D.C.	A.B. 1947, University of Texas	
D.S.C. 1941, Temple University		Keller, William Charles	Pa.
Kay, Harold Henry	D.C.	Kellerman, Orlan Joseph	Calif.
Kay, Louis George	N.Y.	Keller, Margaret Wood	Va
Kay, Milton Leonard	D.C.	Keller, Charles William	D.C.
Kay, Thomas R. Jr.	Mo.	Keller, Lee F.	D.C.
Kaye, Norman N.	D.C.	Keller, Frank William	Mo.
Kaye, Robert Adolph	N.D.	Kelly, George A., Jr.	Calif.
Kay, Scott	Mo.	Kelly, James Earl	Mo.
A.B. 1941, Brooklyn College		Kelly, James John Joseph	D.C.
Kay, Thomas E. Howard	Mo.	Kelly, Margaret E.	D.C.
Kay, Eugene Karlson	S.D.	E.S. 1941, M.S. 1945, The George Washington University	
Kay, Robert Anthony	N.Y.	Kelly, Martin Russell	Ore.
Kay, David	D.C.	P.A. 1941, United States Naval Academy	
Kay, William	D.C.	Kelly, William E. Morris	Mo.
Kay, Robert George	D.C.	Kelly, Thomas Otto	Va
Kay, Thomas O'More	Calif.	Kelly, William	D.C.
E.S. 1941, University of California		Kelly, Michael R.	N.J.
Kay, John Paul	Pa.	A.B. 1941, University of Delaware	
Kay, John Howard	D.C.	A.M. 1944, Columbia University	
Kay, Robert A. Allen	Pa.	Kelly, Thomas	Va
Kay, Robert John	Va	A.B. 1941, University of Richmond	
Kay, William Robert	N.J.	Kelly, John Ross	Va
Kay, Thomas Francis	N.Y.	E.S. 1941, University of Richmond	
A.B. 1941, B.S. 1945, Columbia University		Kelly, John	Pa.
Kay, James Edmund	Pa.	Kelly, William	Va
Kay, John Vincent	Mo.	Kelly, William A.M. 1941, New York University	
Kay, William Joseph	Mo.	Kelly, Eugene Oswald	Mo.
E.S. 1941, United States Naval Academy		Kelly, Anne K.	Calif.
Kay, John Kent	D.C.	Kelly, George M.	D.C.
Kay, Robert Francis	Mo.	Kelly, John Joseph	N.Y.
Kay, John	D.C.	Kelly, Joseph	Pa.
Kay, Louis George	Va	B.S. 1941, Teachers Institute of Tennessee	
Kay, John Lee	Mo.	Kelly, Elizabeth	Pa.
Kay, George Ellsworth	Pa.	E.S. 1941, Teachers State Teachers College	
Kay, John William	Tex.	Kelly, George Kent	Ind.
Kay, George Ann	Va	Kelly, Mary Joseph	Mo.
Kay, Thomas Patrick	D.C.	Kelly, John	Mo.
M.S. 1941, S.W. 1947, Catholic University of America		B.S. 1947, Georgetown University	
Kay, John Joseph	Pa.		
Kay, Harold Joseph	D.C.		
Kay, John	Pa.		
A.B. 1941, University of Pennsylvania			
Kay, Francis Joseph, II	D.C.		
Kay, David Lewis	D.C.		
Kay, John Robert	D.C.		

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Kaplan, William Henderson	Maine	Klein, A. F. and Ronald	Wis.
B.S. 1942, United States Naval Academy		B.S. 1946, The George Washington University	
Kaplan, Joseph Thomas	Wash.	Klein, C. Clinton Albert	D.C.
A.B. 1944, Washington University		Klein, E. H. H.	N.J.
Kaplan, William Kent	D.C.	B.S. 1944, Rutgers University	Pa.
Kaplan, Thomas	Ky.	Klein, Eric William	
Kaplan, Murray	D.C.	B.S. 1941, Pennsylvania State College	
B.S. 1942, United States Naval Academy		Klein, George William Light	D.C.
Kaplan, William Gustav, Jr.	D.C.	Klein, George Light	D.C.
Kaplan, Arthur Stanley	Calif.	Klein, David Lewis	N.J.
Kaplan, John Thomas	Mass.	Klein, William	N.Y.
Kaplan, John Thomas	Mass.	Klein, David Lewis	D.C.
Kaplan, William Henry	D.C.	Klein, David Lewis	D.C.
A.B. 1942, Adelphi College		Klein, David Lewis	Mass.
Kaplan, James Milton	Mich.	Klein, David Lewis	D.C.
B.S. 1944, The George Washington University		Klein, David Lewis	Ky.
Kaplan, John Wiley	D.C.	Klein, David Lewis	D.C.
Kaplan, Robert Allen	Mass.	Klein, David Lewis	Pa.
Kaplan, James Milton	D.C.	Klein, David Lewis	Va.
Kaplan, Michael Eugene	N.Y.	Klein, David Lewis	Va.
Kaplan, Michael Eugene	Mass.	Klein, David Lewis	MI
Kaplan, Michael Eugene	N.Y.	Klein, David Lewis	Fla.
Kaplan, Michael Eugene	N.Y.	B.S. 1947, University of Florida	
B.S. 1948, College of the City of New York		Klein, David Lewis	D.C.
Kaplan, Stephen S.J.	N.Y.	Klein, David Lewis	Mass.
Kaplan, Stephen S.J.	N.Y.	Klein, David Lewis	D.C.
Kaplan, Stephen S.J.	D.C.	Klein, David Lewis	Va.
Kaplan, Stephen S.J.	Mass.	Klein, David Lewis	Va.
B.S. 1942, University of Massachusetts		B.S. 1947, Wesleyan College	
M.S. 1944, Iowa State College		Klein, David Lewis	MI
Kaplan, Nina Anne	D.C.	Klein, David Lewis	N.Y.
Kaplan, Nina Anne	Ohio	Klein, David Lewis	D.C.
B.S. 1944, United States Naval Academy		Klein, David Lewis	D.C.
Kaplan, Nina Anne	D.C.	Klein, David Lewis	MI
Kaplan, Nina Anne	D.C.	Klein, David Lewis	MI
Kaplan, Nina Anne	N.Y.	Klein, David Lewis	D.C.
Kaplan, Nina Anne	Calif.	Klein, David Lewis	Pa.
Kaplan, Nina Anne	D.C.	Klein, David Lewis	Va.
Kaplan, Nina Anne	N.Y.	B.S. 1947, United States Naval Academy	
Kaplan, Nina Anne	Va.	Klein, David Lewis	D.C.
B.S. 1944, Columbia University		Klein, David Lewis	Va.
Kaplan, Nina Anne	N.J.	Klein, David Lewis	
Kaplan, Nina Anne	N.J.	A.B. 1941, AM. 1941, University of London	
B.S. 1944, Webb Institute of Naval Architecture		Klein, David Lewis	Mass.
Kaplan, Nina Anne	Ohio	Klein, David Lewis	Va.
Kaplan, Nina Anne	Fla.	Klein, David Lewis	D.C.
Kaplan, Nina Anne	MI	A.B. 1947, The George Washington University	
Kaplan, Nina Anne	Va.	Klein, David Lewis	Va.
Kaplan, Nina Anne	D.C.	B.S. 1947, Michigan College	
Kaplan, Nina Anne	Va.	Klein, David Lewis	Pa.
Kaplan, Nina Anne	Ohio	Klein, David Lewis	MI
Kaplan, Nina Anne	Pa.	Klein, David Lewis	N.Y.
Kaplan, Nina Anne	MI	Klein, David Lewis	Va.
Kaplan, Nina Anne	Va.	A.B. 1947, University of New Mexico	
Kaplan, Nina Anne	Pa.	Klein, David Lewis	D.C.
Kaplan, Nina Anne	Pa.	Klein, David Lewis	Pa.
Kaplan, Nina Anne	Pa.	Klein, David Lewis	MI
B.S. 1948, Pennsylvania State College		Klein, David Lewis	D.C.
Kaplan, Nina Anne	D.C.	Klein, David Lewis	D.C.
B.S. 1947, University of Illinois		Klein, David Lewis	N.Y.
Kaplan, Nina Anne	D.C.	Klein, David Lewis	Pa.
Kaplan, Nina Anne	Calif.	B.S. 1947, Pennsylvania State Teaching College	
Kaplan, Nina Anne	N.J.	Klein, David Lewis	D.C.
B.S. 1948, Purdue University		Klein, David Lewis	D.C.
		Koeper, Casper John	Va.



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Larkins, Hayes Carlton	Va	Lawrence, Malcolm	D.C.
LaRosa, Maria Barbara	D.C.	Lawrence, Norman	D.C.
Larick, Benjamin Franklin	Va	B.S. 1939, College of the City of New York	
Larick, Dorothy Marcella	D.C.	Lawrence, Will Dale	Nebr.
Larson, Maria Aven	Iowa	Lawrie, Joe Stanley	Va.
Larson, Nancy Joy	Va.	A.B. 1946, Louisiana State University	
Larson, Susan Avena	Wa	Lawry, R.	D.C.
Larshack, Orla A.	D.C.	Lawry, Walter Arthur	Va
Larson, Donald Eugene	Mass.	Lawry, Jack O'Brien	D.C.
Larson, Milton Avel	Utah	Lawson, Arnold Lee	Va
Larson, Robert E. Lynn	N.Y.	Lawson, Howard Baxter	Va
Larson, Anna Frank	D.C.	Lawson, Jan Lloyd	Va
B.S. 1944, Georgia School of Technology		Lawry, William Edward	D.C.
Larson, John Jr.	Pa	Lay, Kenneth Swift	Mo
Larson, Robert Frederick	Ill.	Layton, Harold Franklin	N.Y.
Larson, Clayton	N.Y.	Layton, Emma Grace, Jr.	Va
Larson, Donald Rex	D.C.	Layton, Ruth Lee	D.C.
Larson, Irv Donald	D.C.	Layton, Elizabeth Marie	Va
Larson, James Thomas	Okla.	Layton, Joseph Kermit	Va
Larson, Henry A.	Pa	Layton, Glen Franklin	Va
Larson, Raymond	D.C.	Leach, Mary Emily	Va
Larson, Vera Lee	D.C.	Leach, George Robert	D.C.
Larson, Robert Francis	D.C.	A.B. 1931, Pennsylvania State College	
Larson, Louis Wade	Va	Leach, Samuel Eugene	Va
A.B. 1937, Miami University		Leach, John Joseph, Jr.	D.C.
A.M. 1939, University of Cincinnati		Leach, James Hamilton	D.C.
Larson, Emma Mary	D.C.	Leach, Paul Joseph	Mass.
Larson, Edmund Robert	N.Y.	Leach, Robert Harry	N.Y.
Larson, James Clay, Jr.	D.C.	Leach, William Frederick	Va
Larson, John	Va	B.S. 1937, United States Naval Academy	
Lee, Stanley Young Chuan	T.H.	Leachman, John Harrison	D.C.
Leachman, Mary	N.Y.	Leachman, Thomas Land	Pa
Leachman, Francis Herbert	MI	Leach, James Elizabeth	D.C.
Leach, Robert Bruce, Jr.	N.Y.	Leach, Lester Walter	D.C.
Leach, James	D.C.	Leach, Louis Patrick	Mass.
Leachman, Edgar Houston	Va	Leach, Robert George	N.Y.
B.S. 1939, Stanford State Teachers College		Leachman, Lisa Margaret	Va
Leach, John James Robert	D.C.	Leach, Henry Thomas	N.Y.
Leachman, Paul William, Jr.	Pa	Leach, William Paul	Mo
A.B. 1937, Maryville College		B.S. 1939, Missouri School of Mines	
Leachman, Lewis Anthony	D.C.	Leachman, Mary Ann	
Leachman, John Paul	D.C.	Leachman, Stanley E.	D.C.
Leachman, Florence Schmitt	D.C.	P.H.D. 1949, University of Chicago	
B.S. 1937, University of Nebraska		Leachman, John Paul	D.C.
M.S. 1944, University of Chicago		Leachman, Anna I.	D.C.
Leachman, Margaret Sargent	D.C.	A.B. 1949, River College	
Leachman, John A.	N.H.	Leachman, Robert	N.Y.
Leachman, Catherine Sinclair	D.C.	Leach, Mary	Va
Leachman, William Graham	Okla.	Leachman, Paul	Va
Leachman, William	Pa	Leach, Jack	W.Va.
Leachman, George Russell	D.C.	B.S. 1938, Marshall College	
Leachman, Vernon George	Va	Leachman, Mary Louise	Kans.
Leachman, John August	D.C.	A.B. 1947, The George Washington University	
A.B. 1947, Columbia University of Chicago		Leachman, Charles Homer	Mich.
Leachman, Norman Paul	D.C.	A.B. 1949, Miami College	
Leachman, George	D.C.	M.B.A. 1951, University of Michigan	
Leachman, John	D.C.	Leachman, John Patrick	Va
Leachman, Henry Ernest	Va	Leachman, James Francis	D.C.
Leachman, Mary Louise	D.C.	Leachman, George	Mo
Leachman, William Thomas, Jr.	Va	Leachman, David	W.Va.
Leachman, Henry William	D.C.	A.B. 1948, The George Washington University	
Leachman, John Jr.	D.C.	Leachman, Mary	D.C.
Leachman, John, Mary	Va	Leachman, Mary	D.C.
Leachman, Mary Louise	D.C.	Leachman, Mary	D.C.
A.B. 1947, Columbia University		Leachman, Mary	D.C.
Leachman, Helen Williams	N.Y.	Leachman, Mary	D.C.
A.B. 1947, University of Wisconsin		Leachman, Mary	D.C.
Leachman, Mary M.	N.Y.	Leachman, Mary	D.C.
A.B. 1949, Columbia University		Leachman, Mary	D.C.
Lawrence, Lester Abbott, Jr.	Va	A.B. 1947, Stanford University	



Lee, Helen	D.C.	Lerner, Joseph Sidney	Md.
Lee, Jacob Fattig	Pa.	B.S. 1928, Western Teachers College	
Lee, John Marshall	Md.	A.M. 1928, Columbia University	
B.S. 1918, United States Naval Academy		Lerner, Isaac Louis	D.C.
Lee, Joseph Fitzhugh	Va.	Lerner, Charles Raymond	D.C.
Lee, Gustav Sporket	Md.	Lerner, Charles Robert	Va.
Lee, Kyoung Sahn	D.C.	Lerner, Kenneth Thomas	N.Y.
Lee, Lewis Leonard	Md.	LeMaitre, George Franklin	Va.
Lee, Lily Kawai Kani	Hawaii	Lerner, Eugene Louis	Md.
Lee, Elmer Wilson	D.C.	LeMaitre, David John	D.C.
Lee, Mayel	D.C.	Levy, Eric Edgar	D.C.
Lee, Murray	Calif.	Levy, Herman Gordon	Calif.
Lee, Murray Kent	Va.	B.S. 1928, Agricultural and Mechanical College of Texas	
Lee, Robert	D.C.	H.E. 1914, University of Oklahoma	
Lee, Sam, Lam	D.C.	Levy, Louis Albert	Pa.
Lee, Stanley Jerome	N.Y.	Levy, Robert Dennis	Va.
Lee, Thomas Wei Yuen	Hawaii	Levy, Morris	D.C.
Lee, Walter Howell	D.C.	Levy, Natalie Jane	D.C.
Lee, William	D.C.	Levy, Mark	Calif.
Lee, Yaw Shun	D.C.	Levy, Mark	Calif.
Leach, Walter Murray	Va.	Levy, Morris	Va.
Leach, William James	D.C.	Levy, William Scott	D.C.
Leach, James Edward	D.C.	Levy, David Eugene	D.C.
Leach, James	D.C.	Levy, James Anthony	Va.
Leach, James Edward	D.C.	Levy, James Louis Jr.	Pa.
Leach, Samuel	Calif.	B.S. 1927, Princeton University	
Leach, Sam Joseph	D.C.	Levy, John Albert	D.C.
A.B. 1927, The George Washington University		B.S. 1928, United States Naval Academy	
Leahy, Mary Sarah	Va.	Levy, Morton Andrew	Kent.
Leahy, Thomas Cullen	Pa.	Levy, Otto R.	D.C.
Leahy, Sam	N.Y.	Levy, Robert McGee	Md.
B.S. 1926, College of the City of New York		Levy, Robert Edgar	D.C.
Leahy, Jack A.	Pa.	Levy, Robert George Marie	D.C.
Leahy, Francis Vincent	Md.	Levy, Sam Green	Calif.
Leahy, John R.	Md.	Levy, Sam Arnold	D.C.
Leahy, Frederick W. Williams	D.C.	Levy, Sam	D.C.
Leahy, Leonard Everett	Va.	Levy, Herman Noyes	D.C.
A.B. 1928, Notre Dame University		Levy, Herbert Joseph	D.C.
Leahy, H. H.	Md.	Levy, Homer	D.C.
Leahy, John Robert C.	Va.	A.B. 1927, University of Miami	
Leahy, Nelson	Pa.	Levy, William A.	N.Y.
Leahy, Robert	D.C.	B.A. 1926, College of the City of New York	
Leahy, Tom Mary	D.C.	Levy, William Milton	Calif.
Leahy, Alexander Charles	Va.	Levy, William Walter Jr.	Va.
Leahy, Charles Mendenhall	Va.	Levy, Louis	Va.
Leahy, Donald Mendenhall	Nev.	Levy, William Walter	Pa.
A.B. 1928, University of Nevada		Levy, Norman Maurice	Md.
Leahy, Louis	Md.	Levy, Robert Milton	Kent.
A.B. 1928, Idaho College		Levy, Sam Oldfield	Md.
A.M. 1924, The George Washington University		Levy, Robert Thomas	D.C.
Leahy, Kenneth Ave.	N.J.	Levy, George Eugene	D.C.
Leahy, Thomas Andrews	D.C.	Levy, Louis George	N.J.
Leahy, David L. Sullivan	D.C.	Levy, Norman	D.C.
A.B. 1928, Brown University		Levy, Norman Maurice	Md.
Leahy, Henry Louis	Pa.	Levy, Sam	D.C.
Leahy, Maria Ruth	N.C.	A.B. 1927, Syracuse University	
Leahy, John T.	Pa.	Levy, Thomas Henry	Nev.
Leahy, Charles Gust	D.C.	Levy, Abraham Samuel	D.C.
Leahy, David	D.C.	A.B. 1927, Oberlin University	
Leahy, Mark Edward	D.C.	Levy, Louis Albert	Va.
Leahy, James Albert	Md.	Levy, Louis William	D.C.
Leahy, John H. Hagan	Md.	Levy, J.P.	Md.
Leahy, Mark A.	D.C.	A.B. 1927, Michigan Agricultural and Mechanical College	
A.B. 1927, University of Michigan		Levy, Louis Albert	Md.
Leahy, Catherine C.	N.J.	Levy, Louis William Jr.	Va.
A.B. 1927, New Jersey State Teachers College		Levy, Louis Albert	W.Va.
		Levy, Louis Albert	D.C.



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Markoff, Raymond Paul	Md.	Martin, Robert C.	Md.
Marks, George Irving	N.J.	Martin, George Frederick	Va.
Marks, Leonard	N.Y.	Martin, Gustav E.	D.C.
Marks, Frank Horne	D.C.	Martin, Thomas E.	Va.
Marks, John Elizabeth	N.Y.	Martin, James Walter	Va.
Marks, Louis John	D.C.	Martin, Edwin D. Jr.	Va.
Marks, Susan B.	N.C.	Martin, Don Harrison	Md.
Marks, Louis Van de Muelebroeke	Va.	Martin, Donald Lewis	D.C.
Marks, James Andrew	D.C.	Martin, Eric Richard	D.C.
Martin, William C.	Tenn.	Martin, Edward Eugene	D.C.
Martin, Charles Austin, Jr.	Calif.	Martin, Lawrence Eugene	Neb.
Martin, Howard Waring	Md.	Martin, Philip Thomas	Va.
Martin, George Albert, Jr.	D.C.	Martin, Philip D. Jr.	Tenn.
Martin, Barbara Frances	Va.	B.S. 1946, United States Naval Academy	
A.B. 1941, University of Michigan			
Martin, Robert August	Va.	Martin, Paul Boniface Carter	Va.
B.S. 1940, United States Naval Academy		B.S. 1940, United States Naval Academy	
Martin, Alfred Charles	N.Y.	Martin, Paul Ernest	D.C.
Martin, George Anthony	Va.	Martin, Eugene Philip	Md.
Martin, Frank Richard	Va.	Martin, Frank Eugene, Jr.	N.Y.
Martin, Melvin Robert	Pa.	Martin, Fred Allen	Md.
Martin, Harry Donald	Va.	Martin, George T.	D.C.
Martin, William Paul	Va.	Martin, Harry William	D.C.
Martin, Albert Vincent Brady	Md.	B.S. 1942, Western Carolina Teachers College	
Martin, Richard William	N.J.		
Martin, Mary Maryann	D.C.	Martin, John Ross	Va.
Martin, Clarence Arthur	D.C.	Martin, Thomas Edmund	Va.
A.B. 1941, Johns Hopkins		Martin, Harry John	Va.
A.M. 1942, The Mary College		Martin, James Arnold	D.C.
Martin, Harold Cameron, Jr.	Md.	B.S. 1943, United States Coast Guard Academy	
A.B. 1941, The George Washington University			
Martin, Harold Gene	Ark.	Martin, James Leedy	D.C.
Martin, Ross Campbell	Md.	Martin, John	D.C.
Martin, Richard Paul Thomas	D.C.	A.B. 1941, Randolph College	
A.B. 1941, Yale University		A.M. 1942, University of Cincinnati	
Martin, Richard Walter	D.C.	Martin, Joseph Catherine	Va.
A.B. 1941, American University		Martin, James Henry	Tenn.
Martin, William Thomas	Calif.	Martin, John Henry	D.C.
A.B. 1941, University of Virginia		Martin, Louis Francis	D.C.
Martin, Charles F.	D.C.	Martin, Mark Joseph	D.C.
A.B. 1941, University of Virginia		Martin, Mark Albert, Jr.	Va.
Martin, Paul Marion	Tenn.	Martin, Mark Joseph	D.C.
Martin, John C.	Va.	Martin, Mark A.	Calif.
Martin, John C.	Va.	B.S. 1941, University College of Agriculture and Mechanics Arts	
B.S. 1941, The George Washington University			
Martin, William Swiread	Va.	Martin, Norman	N.J.
Martin, William Scott	Md.	Martin, Paul	D.C.
Martin, Paul Donald	Va.	Martin, Robert	Md.
A.B. 1941, University of Virginia		Martin, Robert Albert	Neb.
Va. 1941, Virginia Military Institute	D.C.	Martin, Robert	Va.
B.S. 1944, Virginia Polytechnic Institute		Martin, Robert William	Va.
Martin, William Paul	Ind.	Martin, Robert	Tenn.
A.B. 1941, Indiana College		Martin, Robert Lawrence	Ala.
Martin, William Paul	Ky.	Martin, Robert	Va.
B.S. 1941, United States Naval Academy		Martin, Thomas Philip	Va.
A.B. 1941, University of California		Martin, Thomas	D.C.
Martin, William Paul	N.C.	Martin, William	N.C.
B.S. 1941, Wake Forest College		Martin, William	D.C.
Martin, William	Md.	Martin, William	Va.
A.B. 1941, The George Washington University		Martin, William	D.C.
Martin, Robert Harold	Va.	B.S. 1941, United States Naval Academy	
Martin, John	D.C.		
A.B. 1941, University of Southern California		Martin, William F.	D.C.
Martin, William	N.Y.	Martin, William	Pa.
Martin, Barbara Anne	Ark.	Martin, William	N.J.
Tenn.		Martin, William	Wash.
		B.S. 1941, Washington State College	



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O'Reilly, Marguerite Helen	MI	Orr, Mildred	WA Va
O'Rourke, Thomas Robert	DC	Orr, Thomas Henry Boyd, Jr.	DC
Orosco, Elaine Ann	DC	Orr, William	MI
Ortiz, Hector	N.Y.	Orr, William, The George Washington University	
B.A. 1942, College of the City of New York		Orr, William, Jr.	MI
Ost, Milton	DC	Orr, William, Jr.	MI
Ost, Henry	DC	Orr, William, Jr.	DC
Ost, Anthony John	DC	Orr, William, Jr.	DC
A.B. 1941, University of California		Orr, William, Jr.	DC
Ostrom, William Berkeley	MI	Orr, William, Jr.	DC
Ostrom, William, Jr.	MI	Orr, William, Jr.	DC
A.B. 1940, The George Washington University		Orr, William, Jr.	DC
Oswald, Tom	DC	Orr, William, Jr.	DC
Oswald, Carlos I.	N.M.	Orr, William, Jr.	DC
Oswald, Eugene Pyntell	DC	Orr, William, Jr.	DC
Oswald, Catherine Eleanor	DC	Orr, William, Jr.	DC
Oswald, Robert	Va.	Orr, William, Jr.	DC
B.C.E. 1943, Rensselaer Polytechnic Institute		Orr, William, Jr.	DC
Oswald, Donald Rudolph, Jr.	Calif.	Orr, William, Jr.	DC
B.S. 1942, United States Naval Academy		Orr, William, Jr.	DC
Oswald, Elizabeth Ruth	Mich.	Orr, William, Jr.	DC
A.B. 1941, Kalamazoo College		Orr, William, Jr.	DC
Oswald, Robert Kent	Mich.	Orr, William, Jr.	DC
Oswald, William Gray	DC	Orr, William, Jr.	DC
B.S. 1941, Southwest Missouri State Teachers College		Orr, William, Jr.	DC
Oswald, Edward Eugene	Calif.	Orr, William, Jr.	DC
Oswald, George William	DC	Orr, William, Jr.	DC
Oswald, William Russell	DC	Orr, William, Jr.	DC
Oswald, John Wayne	DC	Orr, William, Jr.	DC
Oswald, Peter Christopher III	Va.	Orr, William, Jr.	DC
Oswald, Albert	N.Y.	Orr, William, Jr.	DC
B.S. 1941, College of the City of New York		Orr, William, Jr.	DC
Oswald, Albert	DC	Orr, William, Jr.	DC
Oswald, Paul P.	DC	Orr, William, Jr.	DC
A.B. 1941, Catholic University of America		Orr, William, Jr.	DC
Oswald, John Norman	DC	Orr, William, Jr.	DC
Oswald, Eugene Ann	DC	Orr, William, Jr.	DC
Oswald, Eugene	MI	Orr, William, Jr.	DC
A.B. 1941, Grinnell College		Orr, William, Jr.	DC
Oswald, William William	Mich.	Orr, William, Jr.	DC
B.S. 1941, University of Michigan		Orr, William, Jr.	DC
Oswald, Robert	Kans.	Orr, William, Jr.	DC
Oswald, Robert	DC	Orr, William, Jr.	DC
Oswald, Robert	N.Y.	Orr, William, Jr.	DC
A.B. 1941, The George Washington University		Orr, William, Jr.	DC
Oswald, William	DC	Orr, William, Jr.	DC
A.B. 1941, The George Washington University		Orr, William, Jr.	DC
Oswald, John Thomas	Mich.	Orr, William, Jr.	DC
Oswald, John Thomas	DC	Orr, William, Jr.	DC
Oswald, John Thomas	Va.	Orr, William, Jr.	DC
B.S. 1941, University of Maryland		Orr, William, Jr.	DC
M.S. 1941, The George Washington University		Orr, William, Jr.	DC
Oswald, Thomas Gray	Mich.	Orr, William, Jr.	DC
A.B. 1941, Michigan State College		Orr, William, Jr.	DC
Oswald, Paul Thomas	DC	Orr, William, Jr.	DC
Oswald, Paul Thomas	Pa.	Orr, William, Jr.	DC
A.B. 1941, University of California		Orr, William, Jr.	DC
Oswald, Paul Thomas	Mich.	Orr, William, Jr.	DC
Oswald, Paul Thomas	DC	Orr, William, Jr.	DC
Oswald, Paul Thomas	Va.	Orr, William, Jr.	DC
B.S. 1941, Western Reserve University		Orr, William, Jr.	DC



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Pittenger, Myrtaine	MI	Pitlick, Jerome Lee	D.C.
Pittman, Carlton Lawrence	D.C.	P.S. 1945, Franklin and Marshall	
Pittman, Victor	D.C.	College	
Pittman, Robert Julian	D.C.	Pitlick, Leonard	Pa
Pitts, Margaret Viola	N.C.	Pittman, John Ray	Ida
Pitts, Evelyn Strat	D.C.	Pittman, William Brown, Jr.	D.C.
Pitts, John S.	D.C.	Pittman, William Franklin	Ky
Pivka, Thomas	D.C.	P.S. 1941, Marquette State College	
Pizer, Robert Simon	D.C.	Pitzer, William Otis	Vt
Pizer, Samuel	N.Y.	Pitzer, Albert	D.C.
P.B. 1941, The George Washington		Pitzer, John	D.C.
University		P.B. 1945, M.S. 1946, Catholic	
Pizer, Harry Joseph	D.C.	University of America	
Pizer, Patricia Anne	N.H.	Pitkin, Albert David Jr.	Vt
Pizzetti, Anna Elizabeth	D.C.	A.B. 1948, University of California	
Pizer, Edward Andrew	D.C.	Pitkin, Charles Frederick	Wis
Pizer, Frank Leslie	Ida	A.B. 1945, University of Wisconsin	
Pizer, Lee M.	Conn	L.B. 1946, The George Washington	
Pizer, John Mansfield	Vt	University	
P.S. 1941, C.E. 1945, Norwich		Pitkin, Robert Emmett	Vt
University		Pitman, Albert David	D.C.
Pizer, William Templeton	MI	Pitman, William Mary	D.C.
A.B. 1946, Franklin College of		A.B. 1944, The George Washington	
Ida		University	
Pizzone, Norma Marie	Vt	Pizzone, Harry Irvine	D.C.
Pizzone, James Joseph	D.C.	Pizzone, Linda	D.C.
Pizzone, Jack Kay	D.C.	Pizzone, Arnold Michael	Ida
Pizzone, Leo Franklin	D.C.	A.B. 1945, Cornell College	
Pizer, Anna Maria	Pa	M.S. 1946, University of Iowa	
Pizer, Robert Ray	Mich	Pizzone, Dorothy Marie	Mich
P.S. 1946, United States Military		P.S. 1941, A.M. 1945, University	
Academy		of Minnesota	
M.S.E. 1947, Cornell University		Pizzone, Augusta Ann	Vt
P.B. 1946, George Washington	MI	Pizzone, Joseph Vincent	Mich
Pitkin, Leonard	Pa	P.S. 1944, University of Michigan	
Pittman, Dorothy Anne	D.C.	Pitt, Roy Fred	Vt
Pittman, Robert	D.C.	Pitt, William LeRoy	Vt
Pittman, Roger Douglas	D.C.	A.B. 1945, The George Washington	
A.B. 1944, University of Rochester		University	
Pittman, Carolyn M. Lord	MI	Pitt, William	D.C.
Pittman, Leonard Robert	D.C.	Pittman, Patricia Margaret	D.C.
B.S. 1944, College of William and		B.S. 1944, Saint State University	
Mary		Pittman, Robert Vincent	Vt
Pitt, Charles Hubert, Jr.	D.C.	P.S. 1945, Tennessee State Teachers	
Pitt, Susan James	Ida	College	
Pitt, Ida A. R. Lord	Vt	Pitt, Lee Marie	Pa
Pitt, James Charles	D.C.	Pitt, Nina Debra	Mich
Pitt, Victor Arnold	N.I.	B.S. 1945, 1947, University of	
Pitt, George M. Anthony	D.C.	Georgia	
Pitt, Frances May	MI	Pitt, Robert Seymour	Ida
Pitt, William Clayton	MI	Pitt, David F.	Vt
Pitt, William G.	D.C.	Pitt, Dorothy Addams	D.C.
Pittman, Charles Frederick, Jr.	N.Y.	Pitt, Emma Frances	D.C.
Pittman, Shirley Lee	D.C.	Pitt, George Allen	Ida
Pittman, Robert Richard, Jr.	N.I.	A.B. 1945, The George Washington	
Pittman, Virginia Jean	Vt	University	
Pittman, Marion Joseph	D.C.	Pitt, Harold Eugene	Ky
B.S. 1945, A.M. 1944, Duke		B.S. 1946, M.E. 1947, University of	
University		Kentucky	
Pitt, John	D.C.	Pitt, James Sterling	Ida
Pittman, Maudie	Pa	Pitt, Joseph Richard	D.C.
A.B. 1944, Pennsylvania State		Pitt, Joseph Foster	D.C.
College		Pittman, James Edward	Vt
Pittman, Edna Jay	Vt	Pittman, James	Mich
Pittman, John, Jr.	Pa	Pittman, Kenneth Charles	Ida
Pittman, Andrew	Pa	Int. in Law 1945, Havana University	
Pittman, Stephen	Pa	Pittman, Gus	Vt
Pittman, Milton	D.C.	Pittman, Ralph Anthony	N.Y.
Pittman, Helen	Vt	Pittman, Blanche Edwina	Vt
Pittman, Matthew Steele	Mich	Pitt, William Earl Hunt	Mich
Pitt, William Alexander	D.C.	Pittman, Albert	D.C.
		Pittman, Alvin L.	Vt
		B.S. 1947, University of Alabama	

Porter, Robert Allen, Jr.	MA	Power, David Court	Va
Porter, Louis Graham	DA	Power, David Court	Va
AB 1942, University of Virginia		AB 1942, The George Washington University	
Porter, Eugene Fletcher	Va	Power, Edgar	D.C.
Porter, Carl	D.C.	AB 1942, Presbyterian College	D.C.
Porter, Lucas Richard	W.Va.	Power, Edna Margaret	D.C.
Power, Melvin A.	MA	AB 1942, New College	Va
Power, Neil Arnold	MA	Power, Albert Lee	Va
Power, Ross George	U.	AB 1942, The George Washington University	
Power, Stanley Oliver	Va	Power, Frances	D.C.
Power, William M., Jr.	U.	Power, Margaret Alice	N.Y.
Power, Melvin Freeman	W.Va.	Power, William Aaron	Orl.
Powerhouse, Hope Eudayle	D.C.	Power, William Joseph	Va
Powerhouse, Ralph Sidney	D.C.	Power, David	DA
Power, Lyle	D.C.	AB 1942, College of San City of New York	
B.S. 1944, The George Washington University		AM 1945, University of Iowa	
Price, Ross A., Jr.	D.C.	M.D. 1945, New York Medical College	
Price, Robert Seymour	Va		
Price, John William	Pa.	Price, Stanley	MA
B.S. 1944, Princeton University		Price, George Arnold	Pa.
Price, Lawrence A.	W.Va.	B.S. 1942, Iowa State College	
Price, Maurice	W.	Price, William T.	Va
Price, Ross A., Jr.	D.C.	Price, Thomas Martin	Va
Price, Marshall Samuel	Va	Price, George Robert	Va
B.S. 1942, University of Virginia		Price, George Robert	Va
Price, John William	D.C.	Price, John Robert	Va
Price, George Lee, Jr.	Va	Price, Stanley	N.Y.
Price, Robert Richard	Va	Price, Stanley Charles	DA
B.S. 1944, State University of Iowa		AB 1942, University of Maryland	
Price, John Norman	D.C.	Price, William A.	N.H.
Price, Robert Gordon	D.C.	B.S. 1941, United States Naval Academy	
Price, George Y. Campbell	Va		
AB 1941, The George Washington University		Price, Edgar Ross	Tex.
Price, Thomas Stewart	MA	B.S. 1942, Rice Institute	
AB 1942, U.R. 1947, Columbia University		Price, William Morris	DA
		Price, Leonard	DA
Price, Harold Lewis	D.C.	Price, Mary Louise	DA
Price, Peter Thomas	Va	Price, Stephen Vincent	DA
Price, Robert L.	D.C.	Institute, United States	PA
B.M.E. 1945, The George Washington University		AB 1942, University of California	
Price, Richard Selva	D.C.	Price, Charles William	D.C.
Price, Robert Thomas	D.C.	B.S. 1942, The George Washington University	
Price, Stuart Eugene	W.Va.	Price, H. Thomas, Jr.	Pa.
Price, Joseph A.	D.C.	Price, A. M. R.	Pa.
North, David L.	Calif.	AB 1942, Pacific University	
AB 1942, San Jose State College		Price, Stephen Franklin	Pa.
Price, Charles Alfred	W.Va.	Price, Robert John	D.C.
Price, Kenneth May	Va	Price, George Washington	Va
AB 1942, Lincoln-Wadsworth University		B.S. 1942, United States Naval Academy	
Price, Pauline Rose	Pa.	Price, Frank Cyril	N.Y.
Price, Mary Kate	Tex.	Price, George Louis, Jr.	DA
Price, William Lloyd	N.Y.	Price, William Lloyd	DA
Price, Thomas Mitchell	D.C.	Price, John William	D.C.
Price, Harry Lee	D.C.	Price, Robert A.	D.C.
Price, John Thomas, Jr.	D.C.	Price, Thomas James	Va
Price, Maurice August	N.Y.	Price, Edward Ross	Va
B.S. 1942, Madison College		Price, Frank Lee	MA
Price, M. J.	MA	AB 1942, Columbia University	
AM 1942, Columbia University		AM 1942, University of Minnesota	D.C.
Price, Robert Henry	N.Y.	Price, E. H.	Pa.
Price, Robert M.	Tex.	Price, Robert H.	
B.S. 1942, University of Tennessee		B.S. 1942, The George Washington University	
Price, William	Del.	Price, George Franklin	Va
Price, Andrew Paul	N.Y.	Price, George David	Va
AB 1942, The George Washington University		Price, Harry George	Va
		Price, John David	MA
		Price, John David, Jr.	D.C.
		Price, James Lyle	D.C.

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Singers, Madelon Tashler	D.C.	Savage, William Alvin	Calif.
A.B. 1934, Hunter College		A.B. 1934, Stanford University	
Singers, Mary Hertzsohn	D.C.	Savary, Charles Joseph, Jr.	D.C.
Singers, Philip	D.C.	A.P. 1934, University of Notre	
Singers, Ralph Roman	ME	Calgary	
Singers, William Concord	D.C.	Savage, George Alexander	I.C.
Singers, Albert L.H.	N.Y.	Savater, Harold Richard	Calif.
Singers, Ann Elizabeth	D.C.	Saver, Alan Lyster	I.C.
Singers, Sam Elizabeth	Calif.	Savory, George McNamee	S.C.
Singer, Lillian Fink	Ky.	A.B. 1934, Williams College	
Singer, George William	Pa.	Saxton, Edward James	I.C.
Singer, Bruce Marvin	Va.	Saxton, John William	N.Y.
Singer, Robert David	Va.	Saxton, Helen Paul	N.Y.
Singer, Mary Wesley, Jr.	D.C.	Saxton, William Walter	N.Y.
Singer, Arthur Gordon	D.C.	Saxton, Haley Burton, Jr.	I.C.
Singer, John Edward	Pa.	B.S. 1934, Central State Military	
Singer, Albert Howard	Pa.	Academy	
A.B. 1934, The George Washington		Saxton, Margaret Wynne	D.C.
University		A.B. 1934, Southern College	
Siskin, Louis Smith	Va.	Saxton, Mary Alice	Ill.
B.S. 1934, Virginia State Teachers		B.S. 1934, University of Illinois	
College, Chicago		Saxton, James Thomas	Pa.
Siskin, Raymond Frederick	Va.	Saxton, John	N.Y.
B.S. in Ed. 1934, Pennsylvania State		Saxton, Arnold Joseph	I.C.
Teachers College, Harrisburg		A.B. 1934, Columbia University	
Sissom, Mary Ott	Delaware	LL.B. 1934, The George Washington	
Sissom, John Thomas	D.C.	University	
Sissom, Robert Louis	Mass.	Schaefer, George James	I.C.
Sissom, Bruce Glen	W.Va.	Schaefer, Charles Russell	Mass.
A.B. 1934, Pennsylvania State Teachers		Schaefer, Charles V. R.	I.C.
College		Schaefer, John Patrick	I.C.
Sissom, Vincent H.	Pa.	Schaefer, Mary Francis	Mass.
Sissom, Patricia Stewart	ME	Schaefer, John W.	Va.
Sissom, Jane Margaret	I.C.	Schaefer, Arnold Otto	I.C.
A.B. 1934, University of Richmond		Schaefer, Robert M.	N.Y.
Sissom, George	I.C.	Schaefer, Norman Herman	N.Y.
Sissom, L. K. of Myers	Va.	Schaefer, George Allen	R.I.
Sissom, John A.	Va.	Schaefer, John Caroline	Va.
Sissom, Patricia Mae	I.C.	Schaefer, Henry	I.C.
Sissom, Patricia Marion	I.C.	B.S. 1934, LL.B. 1934, The George	
Sissom, John Thomas	Calif.	Washington University	
Sissom, Anne	Mass.	Schaefer, David Ralph	Mass.
Sissom, John Thomas	I.C.	Schaefer, George Frank	Ill.
A.P. 1934, Yorkton College		Schaefer, David V.	N.Y.
Sissom, Joseph	Mass.	Schaefer, Otto Conrad Julius	N.Y.
Sissom, John	N.Y.	Schaefer, Martin	Va.
Sissom, John	Mass.	B.S. 1934, College of the Sacred	
Sissom, John, Wayne University		Heart	
Sissom, Arthur Frank	D.C.	Schaefer, Norman Joseph, Jr.	D.C.
Sissom, Joseph Anthony	D.C.	Schaefer, Louis Whelan	Calif.
Sissom, Robert Charles	Mass.	B.S. in Ed. 1934, University of	
Sissom, Joseph Frank	Calif.	Albany	
Sissom, Joseph	I.C.	Schaefer, Joseph Michael	N.Y.
Sissom, John Paul	I.C.	A.B. 1934, Brown College	
Sissom, Harold John	Calif.	Schaefer, Robert	N.Y.
A.B. 1934, Ohio State University		Schaefer, Francis Henry, Jr.	I.C.
Sissom, John	Calif.	Schaefer, Elizabeth Irene	I.C.
Sissom, N. J.	Calif.	Schaefer, Joseph	I.C.
Sissom, William James	I.C.	Schaefer, Anne	I.C.
Sissom, William James	I.C.	B.S. 1934, New York University	
Sissom, William James	I.C.	Schaefer, William Henry	Mass.
Sissom, William James	I.C.	Schaefer, William M.	Va.
Sissom, William James	I.C.	Schaefer, Carl Robert	I.C.
Sissom, William James	I.C.	Schaefer, Carlton Frank	I.C.
A.P. 1934, Yorkton College		Schaefer, William Edward	I.C.
A.M. 1934, American University		Schaefer, William Otto	N.Y.
Sissom, William James	I.C.	Schaefer, John	N.Y.
Sissom, William James	I.C.	Schaefer, Catherine Allen	W.Va.
Sissom, William James	I.C.	Schaefer, Otto Joseph	
Sissom, William James	I.C.	B.S. 1934, Central State Teachers	
Sissom, William James	I.C.	College, W.	



Author	Title	Year	Notes
Abel, N. P.	...	1850	
Abel, N. P.	...	1851	
Abel, N. P.	...	1852	
Abel, N. P.	...	1853	
Abel, N. P.	...	1854	
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Abel, N. P.	...	1899	
Abel, N. P.	...	1900	







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Vera Gustav, Bertha Elizabeth	D.C.	Vernon, Mary Emma	D.C.
AB 1941, The George Washington University		AB 1943, Lincoln Memorial University	
Vernon, Marie Genevieve	Pa.	AM 1947, The George Washington University	
BS 1936, United States Naval Academy		Vernon, George Oswald	Me.
MS 1911, Massachusetts Institute of Technology		Vernon, William Howard	Conn.
Vin, George, Catherine Mary	Calif.	Vernon, Howard Conderick	Tex.
Amherst, Mass.	D.C.	Vernon, M. Lee	Vermont
Vin, Harold, Sophie Philip	ME	Vernon, John	D.C.
AB 1947, University of Maryland		Vernon, David Foster	D.C.
Vin, Hunter, Eugene Brewster, Jr.	D.C.	Vernon, Louis Ross	D.C.
Vin, Kenneth, Kathryn Marie	Ohio	Vernon, Joseph	Pa.
BS 1942, Hamilton College		Vernon, Eugene Peter	Va.
Vin, Louis, Robert Warren	Va.	Vernon, Evelyn George, Jr.	Mass.
Vin, Lucien, Melvin John	D.C.	Vernon, John Andrew	D.C.
Vin, Lucien, Norman Isaac	D.C.	Vernon, John A.	D.C.
Vin, Marie, Elizabeth Doreen	Va.	AB 1931, AM 1934, University of California	
AB 1932, Indiana State Teachers College		Verschu, William Eugene	Va.
Vin, Marie, William Garrett	Va.	Verschu, Samuel	N.Y.
Vin, Mary, Lucy Marie	D.C.	Vesta, Robert	N.J.
Vine, Margaret, Elizabeth	D.C.	Vigoda, Michael James	N.Y.
Vin, Nancy, William Louis	D.C.	Vignati, Ernest M.	D.C.
Vin, Norman, Leonard	N.J.	BS in Nursing 1942, College of St. Rose	
Vincent, Joseph Louis	Belgium	Vigoda, Carl William	D.C.
Vin, Paul, Robert George	N.J.	Vin, Philip Glen, Jr.	Va.
Vin, Robert, Jr., Robert Jr.	D.C.	Vignati, Norman Elmer	Va.
AB 1944, Stanford University		AB 1934, Montclair College	
Vin, Robert, Tom Emmett	Va.	AM 1934, University of Virginia	
Vin, Robert, Maurice	D.C.	Vigoda, Donald Joseph	D.C.
Vin, Sam, William L.	W.Va.	Vignati, George John	Calif.
Vin, Stephen, William John	Me.	Vigoda, John David	Calif.
Vin, Victor, Francis Luther	Va.	Vigoda, Howard Marshall	Pa.
Vin, Victor, James Robert	D.C.	Vignati, William	Pa.
Vin, Victor, Joseph Arthur	N.Y.	Vin, William Frederick	Va.
Vin, Stephen, Lawrence Mandelstam	D.C.	Vignati, Billie Anne	D.C.
Vin, Victor, Victor Gordon, Jr.	D.C.	Vignati, John Russell	Pa.
Vin, Victor, Paul Robert	TH	Vignati, Joseph Thomas	Pa.
BS 1927, United States Naval Academy		Vignati, Joseph Thomas	D.C.
Vin, Victor, Robert Hamilton, Jr.	W.Va.	Vignati, John Milton	D.C.
Vin, Victor, Eugene Gerald	D.C.	AB 1945, The George Washington University	
Vin, Victor, John Henry	Ky.	Vignati, John Arthur	D.C.
Vin, Victor, Joseph	N.J.	BS in Law 1947, University of Texas	
Vincent, Paul George	Va.	Vignati, John	D.C.
Vincent, Thomas Monnet	D.C.	Vignati, Joseph Anthony	D.C.
Vignati, Thomas	D.C.	Vignati, George Henry	Va.
Vignati, William	D.C.	Vignati, George, Forrest Davis	D.C.
Vignati, Robert	D.C.	Vignati, Mary Jane	Va.
BS 1936, United States Naval Academy		Vignati, William Herbert	Calif.
Vignati, William	Pa.	Vignati, John Vincent	Calif.
Vignati, Robert Walter	Tex.	AB 1936, University of Miami	
Vignati, Margaret Louise	Pa.	Vignati, Stephen Charles	N.Y.
Vignati, George William	D.C.	Vignati, Arthur	
AB 1947, The George Washington University		BS 1947, F.M.L. 1949, College of Arts and Sciences, New York	
Vignati, Robert Eugene	D.C.	Vignati, Mary Jane	Va.
Vignati, Robert Louis	Va.	Vignati, Robert Allen	Va.
BS in Law 1947, Virginia Polytechnic Institute		Vignati, George Allen	N.Y.
Vignati, Robert, Vincent	D.C.	Vignati, James Randolph, Jr.	Me.
Vignati, Kenneth Eugene	N.Y.	Vignati, Harold Eugene	Va.
Vignati, Leonard William	Va.	Vignati, Frederick Conner	Me.
Vignati, Robert Edward	D.C.	Vignati, Billie Anne, Jr.	Va.
Vignati, Victor Arnold	Wash.	Vignati, Anne Elizabeth	Pa.
Vignati, Benjamin	D.C.	AB 1947, The George Washington University	
Vignati, George William	Ill.	Vignati, Harold Emanuel	Va.
Vignati, William W.	N.Y.	Vignati, Michael Joseph	N.J.
AB 1939, University of Toronto		Vitale, Nicholas Augustine	N.Y.

Vera, Minnie Louise	Ill.	Waldman, Anna Louise	Mass.
Vern, 1941, Northwestern University		W.S. 1941, Massachusetts Institute of Technology	
Vere, Anna Rose	West.	Washington, Anna	D.C.
A.B. 1941, The George Washington University		Wagon, Anna Louise	Va.
Vick, Myron Howard	Me.	Wagner, Evelyn Corbin	D.C.
B.S. 1941, The George Washington University		Wagner, Margaret Oswald	D.C.
Vick, Arthur Monroe	Va.	Wagner, Margaret Oswald	Mass.
A.B. 1941, A.M. 1942, The George Washington University		W.A. 1941, A.M. 1942, Boston University	
Vine, Leland Arthur	Va.	Wagner, Arthur Philip	N.Y.
A.P. 1941, The George Washington University		Wagner, Edwin Henry	N.Y.
Vincent, Fred Albert	N.J.	W.S. 1941, United States Naval Academy	
Vine, Fred C.		Wagner, Eugene Edward	Pa.
Vine, Helen Lyle	Cal.	Wagner, Harry Collins	D.C.
Vine, Vincent	D.C.	Wagner, Harry Milton	Va.
Vine, Fred	D.C.	Wagner, John Oliver	Va.
Vine, Eugene Marvin	D.C.	Wagner, Richard	Va.
Vine, George Paul	D.C.	U.S. 1941, United States Naval Academy	
Vine, Norman	D.C.	Wagner, Samuel Monroe, Jr.	D.C.
Vine, Norman Curtis, Jr.	Cal.	Wagner, Thomas Stanley	D.C.
B.S. 1941, Ohio State University		Wagner, Tom	D.C.
Vine, Virginia Mae	N.J.	Wagner, Louise	N.Y.
Vine, Mary Louisa	Me.	Walt, Barbara Jean	D.C.
Vine, Fred Albert	D.C.	Walt, Charles Louis	Cal.
Vine, Robert Joseph	Me.	Walsh, Albert James	D.C.
Vine, Robert William	Me.	Walsh, Agnes Anne	Me.
Vine, Mary Ann Richard	Tex.	Walsh, Walter Frederick	D.C.
A.B. 1941, Agricultural and Mechanical College of Texas		Walsh, William Walter	D.C.
Vine, James Clifton	D.C.	Walsh, William Harold	Me.
Vine, George Lewis Michael	D.C.	Walsh, George Albert	W.Va.
Vine, George Lewis	Ariz.	Walsh, Lee Marie	Va.
B.S. 1941, Institute of Business Arts		Walsh, Richard Martin	Me.
Vine, James	D.C.	Walsh, Thomas Neil	Me.
Vine, George Henry	D.C.	S.S. 1941, University of Minnesota	
Vine, Fred	N.Y.	Walsh, George Marie	Ariz.
Vine, George Albert, Jr.	Ill.	Walsh, George	Me.
Vine, George Nelson	Va.	Walsh, George Arnold	Me.
V.H. 1941, University of Budapest		Walsh, Charles Arthur	Me.
Vine, George Marie Ann	W.Va.	Walsh, Robert Glenn	D.C.
Vine, Victor Frank	Va.	B.S. 1941, The George Washington University	
A.B. 1941, Western Maryland College		Walsh, Alexander	D.C.
Vine, James Frederick	D.C.	Walsh, Edward Roy	Pa.
Vine, James Howard Joseph	Ind.	Walsh, M. J. Frank	Me.
Vine, Alexander	D.C.	Walsh, Anna Louise	Ind.
Vine, James	N.Y.	A.B. 1941, Maryland College	
Vine, James Louise	D.C.	A.M. 1941, University of Tennessee	
Vine, George Joseph	D.C.	Walsh, George	D.C.
Vine, George	D.C.	Walsh, George	Me.
Vine, George	D.C.	Walsh, Fred Edwin	N.M.
Vine, George	D.C.	Walsh, George	D.C.
Vine, Robert Harold	D.C.	B.S. 1941, Western Teachers College	
W		Walsh, George Marie	W.Va.
Walsh, T. Philip	Me.	Walsh, George William, Jr.	D.C.
A.B. 1941, Penn College		Walsh, George	D.C.
F.D. 1941, Ohio State University		Walsh, George	D.C.
Walsh, Mary S.	Me.	B.S. 1941, Western Teachers College	
Walsh, Robert Joseph	D.C.	Walsh, George	Pa.
Walsh, William Ernest	Va.	Walsh, George, Jr.	Cal.
Walsh, George	W.Va.	Walsh, George	Cal.
Walsh, Thomas Lee	D.C.	B.S. 1941, University of Tennessee	
Walsh, Robert Scott Stiller	Me.	Walsh, George	Tex.
Walsh, George	D.C.	Walsh, George	Me.
Walsh, George	D.C.	Walsh, George	Me.
Walsh, George, Jr.	D.C.	Walsh, George	D.C.
Walsh, Robert	D.C.	Walsh, George	D.C.
Walsh, George	Cal.	B.S. 1941, Western Teachers College	
Walsh, George	Va.	Walsh, George	D.C.







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[illegible]



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[illegible]







Schultz, John L. Jr.	Me	W	
M.D. 1940, Cornell University		W	Med.
Schultz, William	W Va	M.D. 1940, University of Missouri	Mo
M.D. 1940, University of Tennessee		W	DeC
Schultz, George I.	N C	M.D. 1940, University of Illinois	Ill
M.D. 1940, Georgetown University		W	La
I		M.D. 1940, University of Chicago	Ill
Tate, S. L.	DeC	W	Ark
M.D. 1940, The George Washington		M.D. 1940, Jefferson Medical College	N C
University		W	
Tate, James William	Va	M.D. 1940, University of Tennessee	Va
M.D. 1940, University of Tennessee		W	
Tate, George	Pa	M.D. 1940, University of Virginia	Va
Tate, William E.	Me	W	Pa
M.D. 1940, Rush Medical School		W	Ill
Tate, H. P.	Calif	W	DeC
M.D. 1940, University of Texas		M.D. 1940, Jefferson Medical	
Tate, Fred M.	N J	College	
M.D. 1940, University of Virginia		W	Pa
Tate, Frank J.	Pa	M.D. 1940, Johns University	Ch
M.D. 1940, University of Maryland		M.D. 1940, Jefferson Medical	
Tate, Henry J.	Pa	College	
M.D. 1940, Jefferson Medical College		W	W
Tate, George J.	DeC	M.D. 1940, The George Washington	
M.D. 1940, The George Washington		University	
University		W	Va
Tate, Robert J.	N Y	M.D. 1940, Northwestern University	
M.D. 1940, University of Rochester		W	DeC
Tate, J. N.	Va	W	
M.D. 1940, Medical College of Virginia		M.D. 1940, Medical College of the	
Tate, Tom M.	Pa	State of South Carolina	
M.D. 1940, Temple University		W	DeC
Tate, J. L.	DeC	M.D. 1940, Jefferson Medical College	N C
M.D. 1940, Tulane University		W	
Tate, J. S.	DeC	M.D. 1940, Tulane University	
M.D. 1940, Medical College of Virginia		W	Me
Tate, J. S.	Pa	M.D. 1940, Vassar University	
M.D. 1940, Hahnemann Medical		W	DeC
College		M.D. 1940, The George Washington	
Tate, J. S.	Pa	University	
M.D. 1940, Jefferson Medical College		W	DeC
Tate, C. M. J.	Pa	M.D. 1940, The George Washington	
M.D. 1940, University of Pennsylvania		University	
Tate, A.	Me	W	Me
M.D. 1940, University of Maryland		M.D. 1940, University of Maryland	
Tate, J. P.	Pa	W	Va
M.D. 1940, Hahnemann Medical		M.D. 1940, University of Virginia	DeC
College		W	
Tate, L.	N C	M.D. 1940, Hahnemann Medical	
M.D. 1940, Duke University		College	
U		W	Me
Uhl, Henry E.	Pa	M.D. 1940, Wayne University	
M.D. 1940, Jefferson Medical College		W	Pa
Uhl, W.	Me	M.D. 1940, University of Tennessee	
M.D. 1940, Western Reserve University		W	Pa
Uhl, J. I.	Pa	M.D. 1940, Jefferson Medical College	DeC
M.D. 1940, Northwestern University		W	
V		M.D. 1940, University of Missouri	De
Vander, Frank J.	W Va	W	De
M.D. 1940, Rush Medical School		M.D. 1940, Medical College	N Y
Vander, A. C.	W Va	W	
M.D. 1940, Medical College of Virginia		M.D. 1940, University of Pennsylvania	
Vander, J.	DeC	W	Va
M.D. 1940, The George Washington		M.D. 1940, University of Vermont	N J
University		W	
Vander, Z. F.	S A	M.D. 1940, University of Maryland	
M.D. 1940, Northwestern University		W	Ch
Vander, N.	Ch	M.D. 1940, National Medical College	
M.D. 1940, Western Reserve University		W	W Va
Vander, L.	DeC	M.D. 1940, Johns Hopkins University	

Y				
Yager, Irvin L.	D.C.	Yen, Hsueh N.		Pa
M.D. 1945, University of Notre Dame		M.D. 1947, Hwa-Nan Medical School		
Yano, Richard A.	M.D.	Yen, Jui Y. F.		China
M.D. 1945, The George Washington University		M.D. 1944, Tsinghua University Medical School		
Yen, Sai	D.C.	Zhang, David Z.		Pa
M.D. 1945, Hwa-Sun Medical School		M.D. 1947, Tsinghua University		

# SUMMARY OF REGISTRATION

SUMMER TERM 1947

FALL AND WINTER TERMS 1947-48

## THE JUNIOR COLLEGE

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Freshmen	2,145	1,728	3,873
Sophomores	2,805	809	3,614
	<hr/> 5,950	<hr/> 1,537	<hr/> 7,487

## COLUMBIAN COLLEGE

Juniors	257	200	457
Seniors	254	804	1,058
Candidates for the degree of Master of Arts	100	100	200
Candidates for the degree of Master of Science	40	43	83
	<hr/> 751	<hr/> 727	<hr/> 1,478

## THE GRADUATE COUNCIL

Candidates for the degree of Doctor of Philosophy	42	9	51
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## THE SCHOOL OF MEDICINE

First Year	57	9	66
Second Year	58	10	68
Third Year	60	10	70
Fourth Year	70	4	74
	<hr/> 245	<hr/> 33	<hr/> 278

## THE LAW SCHOOL

First Year	80	85	165
Second Year	447	40	487
Third Year	284	30	314
Candidates for the degree of Master of Laws	0	3	3
Candidates for the degree of Master of Arts	0	0	0
Candidates for the degree of Doctor of Jurisprudence	4	0	4
Candidates for the degree of Doctor of Science	0	0	0
Unaffiliated	61	2	63
	<hr/> 1,592	<hr/> 127	<hr/> 1,719

## THE SCHOOL OF ENGINEERING

Freshmen .....	528	4	632
Sophomores .....	447	3	879
Juniors .....	349	3	812
Seniors .....	226	1	227
	<u>1,550</u>	<u>11</u>	<u>1,681</u>

## THE SCHOOL OF PHARMACY

Juniors .....	16	4	20
Seniors .....	9	1	10
	<u>25</u>	<u>5</u>	<u>30</u>

## THE SCHOOL OF EDUCATION

Juniors .....	71	66	137
Seniors .....	83	51	134
Candidates for the Degree of Master of Art .....	137	40	201
Candidates for the degree of Doctor of Education .....	32	7	39
	<u>313</u>	<u>22</u>	<u>335</u>

## THE SCHOOL OF GOVERNMENT

Juniors .....	25	54	259
Seniors .....	14	48	207
Candidates for the degree of Master of Art .....	179	40	219
	<u>318</u>	<u>142</u>	<u>685</u>

## THE DIVISION OF UNIVERSITY STUDENTS

University Students .....	2,551	1,587	4,288
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## THE DIVISION OF SPECIAL STUDENTS

Special Students .....	2,471	320	2,781
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## SECRETARIAL ADMINISTRATION

Candidates for the degree of Bachelor of Science in Secretarial Administration .....	0	15	15
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## GRADUATE AND POSTGRADUATE INSTRUCTION IN MEDICINE\*

Graduate and Postgraduate Students .....	54	24	78
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## SUMMARY

Students registered Academic Year 1947-48 .....	17,781	2,500	20,281
Students registered Summer Term 1947 .....	8,073	2,102	10,175
Total registration, 1947-48 .....	<u>25,854</u>	<u>4,602</u>	<u>30,456</u>

\* Students registered for graduate and postgraduate instruction in medicine are not included in the summary of registration.



Duplicate registrations .....	1-975	3,125	14-80
Total number of students registered 1947-48 ....	15,479	5,123	2,742

## TEACHING STAFF

Professors Emeritus .....	23
Professors .....	78
Adjunct Professors .....	12
Professorial Lecturers .....	68
Capital Professors .....	23
Adjunct Capital Professors .....	6
Associate Professors .....	37
Associate Capital Professors .....	3
Associate in the School of Medicine .....	48
Assistant Professors .....	42
Assistant Capital Professors .....	23
Lecturers .....	192
Instructors .....	46
Capital Instructors .....	99
Research Associates .....	4
Assistants .....	114
Principals .....	23
Administrators .....	16
	<hr/> 767

## DEGREES CONFERRED

NOVEMBER 11, 1947; FEBRUARY 23, 1948; MARCH 23, 1948; MAY 26, 1948

Absolutes in Arts .....	1,385
Bachelor of Arts .....	355
Bachelor of Arts in Education .....	20
Bachelor of Arts in Government .....	179
Bachelor of Civil Engineering .....	8
Bachelor of Electrical Engineering .....	23
Bachelor of Law .....	150
Bachelor of Mechanical Engineering .....	22
Bachelor of Science .....	55
Bachelor of Science in Engineering .....	6
Bachelor of Science in Home Economics .....	6
Bachelor of Science in Pharmacy .....	10
Bachelor of Science in Physical Education .....	18
Bachelor of Science in Secondary Administration .....	5
Doctor of Civil Law .....	1
Doctor of Education .....	7
Doctor of Juris Science .....	1
Doctor of Laws (Honorary) .....	3
Doctor of Medicine .....	8
Doctor of Philosophy .....	7
Doctor of Science (Honorary) .....	1
Latin Doctor .....	15
Master of Arts .....	43
Master of Arts in Education .....	97
Master of Arts in Government .....	30
Master of Laws .....	24

Master of Science .....	18
Navy Certificate .....	71

2,879

## GEOGRAPHICAL DISTRIBUTION OF STUDENTS

## UNITED STATES, TERRITORIES, AND POSSESSIONS

Alabama .....	86	Nevada .....	10
Arizona .....	33	New Hampshire .....	28
Arkansas .....	51	New Jersey .....	111
California .....	166	New Mexico .....	2
Colorado .....	46	New York .....	1,116
Connecticut .....	124	North Carolina .....	168
Delaware .....	25	North Dakota .....	41
District of Columbia .....	8,230	Ohio .....	112
Florida .....	117	Oklahoma .....	78
Georgia .....	87	Oregon .....	55
Idaho .....	31	Pennsylvania .....	770
Illinois .....	312	Rhode Island .....	14
Indiana .....	122	South Carolina .....	60
Iowa .....	114	South Dakota .....	41
Kansas .....	78	Tennessee .....	90
Kentucky .....	74	Texas .....	240
Louisiana .....	75	Utah .....	55
Maine .....	51	Vermont .....	14
Maryland .....	2,447	Virginia .....	1,672
Massachusetts .....	279	West Virginia .....	139
Michigan .....	124	Wisconsin .....	117
Minnesota .....	124	Wyoming .....	41
Mississippi .....	61	Alaska .....	2
Missouri .....	135	Canal Zone .....	1
Montana .....	31	Hawaii .....	10
Nebraska .....	82	Puerto Rico .....	33

## FOREIGN COUNTRIES

Argentina .....	1	Guatemala .....	1
Australia .....	1	Honduras .....	1
Bahamas .....	1	Iceland .....	1
Bolivia .....	5	India .....	1
Brazil .....	3	Iran .....	2
British Guiana .....	1	Malaya .....	1
Burma .....	1	Mexico .....	5
Canada .....	5	New Zealand .....	1
Czechoslovakia .....	1	Norway .....	1
China .....	15	Palau .....	2
Colombia .....	1	Pakistan .....	4
Costa Rica .....	2	Panama .....	1
Cuba .....	5	Paraguay .....	1
Denmark .....	2	Peru .....	1
Egypt .....	1	Philippines .....	1
El Salvador .....	1	Portugal .....	1
France .....	1	San Marino .....	2
Germany .....	1	Sweden .....	1
Greece .....	2	Switzerland .....	1
		Uruguay .....	2
		Venezuela .....	2

\* Navy certificates are not included in the total number of degrees conferred.







THE SCHOOL OF EDUCATION

1948-49



THE  
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WASHINGTON  
UNIVERSITY  
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No. 5

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THE SCHOOL OF EDUCATION

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WASHINGTON, D. C.

PUBLISHED IN JULY  
MCMXLVIII

BY THE UNIVERSITY





CALENDAR

1948-49

# CALENDAR OF THE SCHOOL OF EDUCATION

1948-49

Date	Day	Comments
1948		
FALL TERM		
Sept. 17	Friday	Last day for receiving dissertations of candidates for the degree of Doctor of Education to be conferred in November. Last day for receiving those of candidates for the degree of Master of Arts in Education to be conferred in November.
Sept. 18	Sunday	Registration for the fall term.
Sept. 20 and 21	Wednesday and Thursday	Registration of students registered winter in summer term 1948.
Oct. 1	Friday	Registration of new students.
Oct. 4	Monday	Admission year begins.
Oct. 9	Saturday	Last day for registration for credit for the fall term.
Oct. 10	Saturday	Last day on which candidates may file their subjects for the Master's degree to be conferred in February. Last day on which candidates for the degree of Doctor of Education may apply for Graduate preliminary examinations. Last day on which candidates for all degrees of Master of Arts in Education may apply for Graduate preliminary examinations.
Oct. 23	Sunday	Comprehensive examinations for candidates for the degree of Doctor of Education. Comprehensive examinations for candidates for the degree of Master of Arts in Education. Last day on which candidates may file their dissertations for the degree of Doctor of Education to be conferred the following year.
Nov. 6	Sunday	Last day on which candidates for the degree of Master of Arts may file their theses and comprehensive examinations.

CALENDAR OF THE SCHOOL OF EDUCATION—Continued

Date	Day	Comments
Nov. 11 . . .	Thursday	Fall Commencement. Holiday
Nov. 25-27.	Thursday through Saturday	Thanksgiving term.
Dec. 12 . . .	Saturday	Last day on which candidates for the degree of Doctor of Education may apply for January comprehensive examinations. Last day on which candidates for the degree of Master of Arts in Education may apply for January comprehensive examinations.
Dec. 22- Jan. 1 . . .	Wednesday through Saturday	Christmas vacation
1949		
Jan. 3 and 4	Monday and Tuesday	Preregistration of students registered in the fall term.
Jan. 5 . . . . .	Wednesday	Classes resume. Last day on which candidates may be admitted for degrees to be conferred in February.
Jan. 7 . . . . .	Friday	Last day for receiving nominations of candidates for the degree of Doctor of Education to be proclaimed in February.
Jan. 8 . . . . .	Saturday	Comprehensive examinations for candidates for the degree of Doctor of Education. Comprehensive examinations for candidates for the degree of Master of Arts in Education.
Jan. 20 . . . . .	Thursday	Immigration Day. Holiday
Jan. 22 . . . . .	Saturday	Last day of classes for the fall term.
Jan. 24 . . . . .	Monday	Last day for receiving nominations for the degree of Master of Arts in Education to be proclaimed in February.
Jan. 24- Feb. 1 . . . . .	Monday through Tuesday	Fall term examinations period
Winter Term		
Feb. 4 . . . . .	Friday	Registration of new students.
Feb. 7 . . . . .	Saturday	Classes resume for the winter term.
Feb. 12 . . . . .	Saturday	Last day for nomination for candidates for the winter term.

## CALENDAR OF THE SCHOOL OF EDUCATION—Continued

Date	Day	Observance
Feb. 18.....	Friday .....	Last day on which candidates may file thesis subjects for the Master's degree to be conferred in June
Feb. 22.....	Tuesday .....	Winter Convocation. Holiday
Feb. 26 ....	Saturday .....	Last day on which candidates entering the School of Education at the beginning of the Winter Term for the degree of Bachelor of Arts may file plans of academic and non-academic activities
March 12....	Saturday .....	Last day on which candidates for the degree of Doctor of Education may apply for April comprehensive examinations
		Last day on which candidates for the degree of Master of Arts in Education may apply for April comprehensive examinations
March 18....	Friday .....	Last day on which candidates may file dissertation subjects for the degree of Doctor of Education to be conferred the following November
April 9.....	Saturday .....	Comprehensive examinations for candidates for the degree of Doctor of Education
		Comprehensive examinations for candidates for the degree of Master of Arts in Education
April 14.....	Thursday .....	Last day for receiving dissertations of candidates for the degree of Doctor of Education to be conferred in June
		Last day on which candidates may file dissertation subjects for the degree of Doctor of Education to be conferred the following February
		Last day on which candidates may file applications for degrees to be conferred in June
April 15 and 16	Friday and Saturday .....	Easter recess
April 25.....	Monday .....	Last day for receiving thesis of candidates for the degree of Master of Arts in Education to be conferred in June
May 2.....	Monday .....	Summer term commencement ceremony followed by the convocation



## CALENDAR OF THE SCHOOL OF EDUCATION—Continued

Date	Day	Event
May 17	Monday	Last day of classes for the winter term
May 18-20	Wednesday through Friday	Winter term examination period
May 21	Saturday	Examination Session
June 1	Wednesday	Commencement
Summer Term		
June 7	Tuesday	Registration of first students for the first session and the opening of classes
June 8	Wednesday	Closes first
June 11	Monday	Registration for second examination
June 12	Tuesday	Closes for second examination
June 13	Wednesday	Closes for second examination and Examination Day - Holiday
June 14	Thursday	Registration for third session
June 15	Friday	Closes for third session
June 16	Saturday	Last day on which students for the degree of Doctor of Education may enter for July commencement exercises
June 17	Sunday	Last day on which students for the degree of Master of Arts in Education may enter for July commencement exercises
July 27	Wednesday	Commencement exercises for students for the degree of Doctor of Education
		Commencement exercises for students for the degree of Master of Arts in Education
Aug 1	Monday	First session session ends
Aug 2	Tuesday	Registration for the second session of the summer term
Aug 12	Friday	Closes first
Aug 15	Monday	Closes for second session and Registration for third examination
Sept 2	Friday	Closes for second examination
Sept 5	Monday	Closes for third examination and Exam Day - Holiday
Sept 16	Friday	Third session session ends
Sept 21	Friday	Second session session ends
Sept. 28-30	Wednesday through Friday	Registration for the fall term of the next year 1922-23



## THE BOARD OF TRUSTEES

The Board of Trustees of the University is composed of the President and Vice President of the University *ex officio* and the following persons by election:

**Robert Vedder Fleming, LL.D.,** *Chairman*

**Henry Parsons Erwin, A.B.,** *Secretary*

**\*Newell Windom Ellison, A.B., LL.B.,** *Assistant Secretary*

---

**Avery DeLano Andrews, B.S., LL.B.**

Clarence Aiken Aspinwall

**Lyman James Briggs, Ph.D., Sc.D., D.Eng., LL.D.**

**John St. Clair Brookes, Jr., A.M., LL.B.**

**John Henry Cowles, LL.D.**

Homer Cummings, Ph.B., LL.B., LL.D., L.H.D.

Mrs. Joshua Evans, Jr., A.B., Ed.D.

**\*Robert Elliott Freer, A.B., LL.M.**

Charles William Gierstenberg, Ph.B., LL.B., J.D.

Charles Carroll Glover, Jr., A.M., LL.B.

**Gilbert Grosvenor, A.M., LL.D., Litt.D.**

Brooks Hays, A.B., LL.B., LL.D.

**John Edgar Hoover, LL.M., LL.D.**

**\*Frank Atherton Howard, B.S. in M.E., LL.B.**

**Alfred Henry Lawson, LL.B.**

Benjamin Mosby McKelway

Claude Worthington Owen, LL.M.

**Mrs. Henry Alvah Strong, LL.D.**

**Merle Thorpe, A.B.**

**Walter Rupert Tuckerman, A.B., LL.B.**

**Chester Wells, B.S., Graduate**

**United States Naval War College**

**Alexander Wetmore, Ph.D., Sc.D.**

**\*Charles Stanley White, M.D., Sc.D.**

**Lloyd Bennett Wilson**

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\* Not elected by the alumni

## OFFICERS OF ADMINISTRATION

### THE UNIVERSITY

- Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
Ulysses S. Grant, 3d, B.S., Graduate United States Engineers School,  
*Vice President*  
Harold Griffith Sutton, M.S., *Director of Admissions*  
Burnice Herman Jarman, A.M., Ed.D., *Registrar; Secretary of the  
Faculties*  
John Russell Mason, B.S. in L.S., A.M., *Librarian; Curator of Art*  
Myrna Pauline Sedgwick, A.B., *Administrative Secretary*  
Fred Everett Nessell, A.B., *Business Manager*  
Henry William Herzog, B.S., *Comptroller*  
Claud Max Farrington, A.M., *Director of Activities for Men*  
Virginia Randolph Kirkbride, A.M., *Director of Activities for Women*  
Alan Thomas Deibert, A.M., *Adviser to Students from Foreign  
Countries*  
\*Mitchell Dreese, Ph.D., *Dean of the Summer Sessions; Director of  
Veterans Education*  
Daniel LeRay Borden, A.M., M.D., *Director of Health Administration*  
Ruth Harriet Atwell, A.M., *Director of Physical Education for Women*  
Lester Allan Smith, A.M., *Director of Alumni Relations*  
John Rust Busick, A.B., *Director of Public Relations*

\* On authorized leave full term 1948-49



## THE FACULTY AND STAFF OF INSTRUCTION\*

### THE SCHOOL OF EDUCATION

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
James Harold Fox, A.M., Ed.D., *Dean of the School of Education*

Henry Grattan Doyle, A.M., LL.D., Litt.D., *Professor of Romance Languages*

Ruth Harriet Atwell, A.M., *Professor of Physical Education for Women*

Frank Mark Weida, Ph.D., *Professor of Statistics*

† Mitchell Dreese, Ph.D., *Professor of Educational Psychology*

James Harold Fox, A.M., Ed.D., *Professor of Education*

Thelma Hunt, Ph.D., M.D., *Professor of Psychology*

Frances Kirkpatrick, A.M., *Professor of Home Economics*

William Henry Myers, A.M., *Professor of Physical Education for Men*

Burner Herman Jarman, A.M., Ed.D., *Professor of Education*

Louis Clark Keating, Ph.D., *Professor of Romance Languages*

Chester Elwood Leese, Ph.D., *Professor of Physiology*

William Cullen French, Ph.D., *Professor Emeritus of Education in Residence*

Meredith Chester Wilson, B.S., *Adjunct Professor of Education*

Ruth Coyner Little, Ph.D., *Professorial Lecturer in Education*

§ Ray LaForest Hamon, Ph.D., *Professorial Lecturer in Education*

§ Benjamin Franklin Kyker, A.M., *Professorial Lecturer in Education*

Charles Edward Bish, A.M., Ed.D., *Professorial Lecturer in Education*

§ Henry Fred Alves, A.M., *Professorial Lecturer in Education*

¶ Helen Bennett Lawrence, A.M., *Associate Professor of Physical Education for Women*

Kathryn Mildred Towne, A.M., *Associate Professor of Home Economics*

Elizabeth Bartner, A.M., *Associate Professor of Physical Education for Women*

Joseph Henry Krupa, M.S. in P.E., *Associate Professor of Physical Education for Men*

Ralph Windsor Ruffner, A.M., *Associate Professor of Education*

Blake Smith Root, A.M., *Associate Professor of Education*

Dorothy Helene Veon, A.M., Ed.D., *Assistant Professor of Secretarial Studies*

\* The President of the University, the Dean of the School, the Registrar of the University, the Director of Admissions of the University, Professors, Assistant Professors, Associate Professors, Assistant Professors and Lecturers constitute the Faculty.

† In addition to the above list, from 1943-44.

§ The College of Education 1943-44.

¶ On additional leave winter term 1943-44.

- Margaret Olive Osborn, M.S., *Assistant Professor of Home Economics*  
 Virginia Loretta Dennis, A.M., *Assistant Professor of Physical Education for Women*  
 Raymond George Hanken, B.S. in P.E., *Assistant Professor of Physical Education for Men*  
 Marjorie Tate, A.M., *Assistant Professor of Physical Education for Women*  
 Arthur Hoppe, M.S., Ed.D., *Assistant Professor of Education*  
 Jane Frost Hilder, A.M., *Lecturer in Education*  
 \*Madaline Kinter Remmlein, Ph.D., J.D., *Lecturer in Education*  
 LuVerne Crabtree Walker, A.M., *Lecturer in Education*  
 Helen Barton Goodwin, A.M., *Lecturer in Education*  
 Ralph Waldo Foster, A.M., *Lecturer in Physical Education for Men*  
 Camilla Painter Luecke, A.M., *Lecturer in Education*  
 Florence Mary Lumsden, A.M., Ed.D., *Lecturer in Education*  
 William Samuel Rumbough, A.M., *Lecturer in Education*  
 \*Carson Chiles Hearne, A.M., *Lecturer in Education*  
 Harold Maurice Wilson, A.M., *Lecturer in Education*  
 Catherine Prentiss, B.S., *Instructor in Physical Education for Women*

## CONSULTANTS IN RESEARCH

- Helen Mary Wilson, Ph.D., *Consultant in Research in Education*  
 John Robert Ludington, Ph.D., *Research Associate in Education*

## READING CLINIC

- Jane Frost Hilder, A.M., *Director of the Clinic*  
 Marie Marguerite Neeb, A.M., *Assistant Clinician*

## COMMITTEES

## THE DEAN'S COUNCIL

1950

Michael Dreese  
 Helen Bennett Lawrence

1950

Dorothy Helene Veon  
 Arthur Hoppe

1951

Thelma Hunt  
 Frances Kirkpatrick

\* On leave of absence from the University of Washington.  
 \* On leave of absence from the University of Washington.  
 \* On leave of absence from the University of Washington.  
 \* On leave of absence from the University of Washington.

COMMITTEE ON ADMISSION AND ADVANCED STANDING

The Dean of the School, *Chairman*

Harold Griffith Sutton

Frances Kirkpatrick

William Henry Myers

Frank Mark Weida

Burnice Herman Jarman

Ruth Harriet Atwell

COMMITTEE ON SCHOLARSHIP

Blake Smith Root, *Chairman*

William Henry Myers

Helen Bennett Lawrence

Kathryn Mildred Towne

## GENERAL INFORMATION

### INTRODUCTORY

It is the purpose of the School of Education to prepare teachers, supervisors, and administrators for the higher ranges of educational service and to offer opportunities to teachers of experience to extend their education. The School includes the departments of Education, Physical Education, and Home Economics.\* It offers both graduate and undergraduate work. Other departments of the University provide general education and subject-matter courses needed for a well balanced program of teacher education.

The schedule of courses is arranged to meet the convenience of both full-time and part-time students. By attending evening, Saturday, and summer classes, teachers in the schools of Washington and the vicinity may complete all the requirements for a degree without giving up their positions.

To help children and adults with reading difficulties, the School of Education operates a reading clinic for diagnosis and treatment.

### HISTORICAL DEVELOPMENT

The University began offering professional courses for teachers in 1904-5 and in 1907 it established a Division of Education. In 1909, the Division of Education became the Teachers College which, in its early years, was concerned largely with teacher preparation on the undergraduate level.

In 1928, the Teachers College became the School of Education and greater provision was made for advanced study. Since that time the graduate enrollment has steadily increased with the result that today the School has a considerably larger number of graduate than undergraduate students.

### ADVANTAGES OF STUDY IN THE NATION'S CAPITAL

Washington is rich in the resources needed by teachers to supplement classroom instruction. In addition to the library facilities of the University, the Library of Congress, the Library of the Office of Education, and many special collections provide unexcelled opportunities for reading and research. The operation of all branches of the National Government may be observed. Among the art galleries are the National Gallery of Art, the Corcoran Gallery of Art, the Freer Art Gallery.

\* The Department of Home Economics offers a curriculum in home-making. Its program is described in a special announcement.



Phillips Memorial Gallery, and the National Museum. The winter concerts and the summer Watergate series of the National Symphony Orchestra delight lovers of good music. Those interested in science find many resources for study at the National Museum, the National Zoological Park, the United States Botanic Garden, and the Aquarium of the Fish and Wildlife Service, Department of the Interior. Teachers have unique opportunities to become acquainted with the work of the Office of Education, the National Education Association, the American Council on Education, and many other national organizations with headquarters in Washington.

#### ACADEMIC STATUS

The George Washington University is on the approved list of the Association of American Universities, the standard accrediting body for the United States. This fact not only assures to students the academic standards of this accrediting body, but also is important to those who desire to transfer credits from one institution to another.

The University is also accredited by its regional accrediting agency the Middle States Association of Colleges and Secondary Schools, and is on the approved list of the American Association of University Women.

The School of Education is a member of the American Association of Colleges for Teacher Education and was a charter member of the National Association of Colleges and Departments of Education prior to the merger of that association with others to form the American Association of Colleges for Teacher Education.

## PROGRAMS FOR THE EDUCATION OF TEACHERS

### PROGRAMS LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN PHYSICAL EDUCATION

#### BACHELOR OF SCIENCE IN PHYSICAL EDUCATION FOR WOMEN

There are three curricula leading to the degree. The Dual Major Teacher's Course is designed to prepare students for positions in schools where it is necessary to teach an academic subject in addition to Physical Education.

The Single Major Teacher's Course prepares for the teaching of Physical Education in the larger schools. Within this course there is opportunity for specialization in dance, sports, or correctives.

The physical Education and Recreation Course has been planned for those who wish to be prepared to direct programs of recreation in addition to teaching Physical Education.

Graduate work is offered in the School of Education leading to the degree of Master of Arts in Education; graduate students may undertake special problems and engage in research in the fields of Physical Education and Recreation.

#### Dual or Single Major Teacher's Course

The student desiring to prepare herself to teach another subject in addition to Physical Education for Women may do so by choosing her elective hours from one subject-matter field with the advice of the Dean of the School of Education. Relevant work completed in the Junior College may be counted in this subject-matter field.

JUNIOR YEAR	Credit Hours	SENIOR YEAR	Credit Hours
Science and the School	6	Observation and Practice Teaching	6
Physical Education and Recreation	3	Principles of Teaching Physical Education	3
Theory and Principles of Physical Education	2	School and Community Health	3
Recreation and Remedial Physical Education and Physical Examinations	6	Physical Education	3
Methods of Teaching Physical Education Activities	4	Methods and Materials of Health Instruction	3
Class Leadership	1	Child Welfare in Elementary and Secondary Physical Education	3
Physiology	3	Tests and Measurements in Physical Education	3
Academic standing field in chemistry	3	Administration in Physical Education	3
<b>Total</b>	<b>33</b>	Academic standing field in chemistry	3
		<b>Total</b>	<b>33</b>

## Physical Education and Recreation Course

JUNIOR YEAR	Credit Hours	SENIOR YEAR	Credit Hours
Society and the School	1	Observation and Practice Teaching	6
Introduction to Recreation	2	Principles in Teaching Physical Education	2
Play in Education and Recreation	2	Physical Activities	2
History and Principles of Physical Education	2	School and Community Health Program	2
Therapeutic and Remedial Physical Education and Physical Education Methods	6	Methods and Materials of Health Education	2
Methods of Teaching Physical Education Activities	4	Administration of Physical Education	2
Class Leadership	1	Group Leadership Activities	2
Class Leadership Activities	2	Community Organization for Recreation	2
Physical Education	2	Education	2
Total	33	Total	33

## BACHELOR OF SCIENCE IN PHYSICAL EDUCATION FOR MEN

There are three curricula leading to this degree. The Dual-Major Teacher's Course is designed to prepare students for teaching positions in smaller schools where it is necessary to teach an academic subject in addition to physical education. The Single Major Teacher's Course prepares for the teaching of physical education in the larger schools. The Physical Education and Recreation Course has been planned for those who wish to be prepared to direct programs of recreation in addition to the teaching of physical education.

The minimum requirements for this degree are 60 credit hours, distributed as follows:

## Dual Major Teacher's Course

JUNIOR YEAR	Credit Hours	SENIOR YEAR	Credit Hours
Society and the School	1	General Teaching Skills	2
Education: General	2	Observation and Practice Teaching	6
Play in Education and Recreation	2	History and Principles of Physical Education	2
Introduction to Methods in Physical Education	2	Methods and Materials of Health Education	2
Directed Teaching in Physical Education Activities	4	Form and Management in Physical Education	2
Physical Education Activities	2	Administration and Organization of Physical Education	2
Physical Education	2	Academic Teaching and Education	2
Academic Teaching and Education	2	Education	2
Total	33	Total	33



## Single-Major Teacher's Course

The minimum requirements for this degree are 35 credit hours in physical education, 18 credit hours in education, 3 credit hours in physiology, and 10 credit hours of electives:

JUNIOR YEAR		Credit Hours	SENIOR YEAR		Credit Hours
Society and the School.....	6		Common Teaching Skills.....	3	
Education electives.....	3		Observation and Practice Teaching.....	6	
Play in Education and Recreation.....	3		History and Principles of Physical Education.....	3	
Introduction to Methods in Physical Education.....	2		Methods and Materials of Health Education.....	3	
Leadership Organization in the Intramural Program.....	4		Applied Anatomy and Physiology.....	3	
Directed Teaching in Physical Education Activities.....	4		Kinesiology of Sports for the Physically Handicapped.....	3	
Methods in Major Sport Activities.....	4		Tests and Measurements in Physical Education.....	3	
Physiology.....	3		Administration and Organization of Physical Education.....	3	
Electives.....	4		Electives.....	6	
Total.....	33		Total.....	33	

## Physical Education and Recreation Course

The minimum requirements for this course are 66 credit hours, distributed as follows:

JUNIOR YEAR		Credit Hours	SENIOR YEAR		Credit Hours
Society and the School.....	6		Common Teaching Skills.....	3	
Play in Education and Recreation.....	3		Observation and Practice Teaching.....	6	
Introduction to Methods in Physical Education.....	2		History and Principles of Physical Education.....	3	
Leadership Organization in the Intramural Programs.....	4		Methods and Materials of Health Education.....	3	
Directed Teaching in Physical Education Activities.....	4		Tests and Measurements in Physical Education.....	3	
Group Leadership Activities.....	6		Administration and Organization of Physical Education.....	3	
Electives.....	8		Group Leadership Activities.....	6	
Total.....	33		Community Organization for Recreation.....	3	
			Administration and Supervision of Recreation.....	3	
			Total.....	33	

## PROGRAMS LEADING TO THE DEGREE OF BACHELOR OF ARTS IN EDUCATION

Programs leading to the degree of Bachelor of Arts in Education have three main objectives: (1) provision of a general educational back-



ground, (2) a functional command of ideas, concepts, knowledges, and skills in one or more teaching fields, and (3) a mastery of basic professional information and skills adequate for a beginning teacher. Since the contents of teaching fields differ in scope and complexity, some programs are longer than others in terms of credit hours. None require less than 126 credit hours of satisfactory work, exclusive of required Physical Education. Normally, 60 credit hours of the total requirement is completed in the Junior College of the University or in an equivalent institution elsewhere.

### GENERAL EDUCATION

The general educational backgrounds needed by prospective teachers are obtained through: (1) pre-college education, (2) college courses, (3) work experience, (4) leadership activities, (5) participation in student campus activities, and (6) utilization of off-campus cultural opportunities.

*College course requirements.*—Course requirements depend in part upon the senior high school credits presented for college admission. They are as follows:

#### ENGLISH

Credit  
Hours  
6

English 1-2: Freshman English

Special placement examinations required of all entering freshmen are conducted by the English Department. Those students who show marked superiority may be exempted from one or both terms of the course.

One of the following survey courses in literature

English 31-32: Introduction to English Literature

English 71-72: Introduction to American Literature

English 91-92: Introduction to European Literature

#### FOREIGN LANGUAGES

12

French, German, Latin, or Spanish

A student offering for admission four acceptable high school years of a single foreign language, at the equivalent, is not required to take any foreign language. If he offers three or two, he must complete the second term of the second-year college course in American literature. If he offers two years, he must complete the entire second-year college course in the same language. If he offers one year, he must complete the second year of the second-year college course and the entire second-year course in the same language.

#### SOCIAL STUDIES

History 71-72: The Development of American Civilization  
Ancient Social Studies chosen from the following: (1) Ancient Egypt, (2) Ancient Greece, (3) Ancient Rome, (4) Medieval Europe, (5) Renaissance Europe, (6) Modern Europe, (7) Modern America, (8) Modern World.

Government 1-2: Introductory Government

Government 3-4: Elements of Government

History 31-40: The Development of European Civilization

Political Science 1-2: Government of the United States

Political Science 3-4: Organization and Problems of Society

A student offering for admission two or more acceptable senior high school units in the Social Studies may be exempted from the second part of this requirement.

#### SCIENCE AND MATHEMATICS

Two terms of science or mathematics to supplement senior high school courses in these fields and chosen from the following:

- Biology 1-2: Survey in Biology
- Botany 1-2: Structure and Functions of the Flowering Plant; Survey of the Plant Kingdom
- Chemistry 11-12: General Chemistry
- Mathematics 5 and 6: College Algebra; Plane Trigonometry
- Mathematics 6 and 12: Plane Trigonometry; Analytic Geometry
- Physics 5 and 6, or 6 and 7: General Physics
- Zoology 1-2: Introduction to Zoology

6-8

#### OTHER COURSES

- Psychology 1 and 22: General and Educational Psychology..... 6
- Speech 11: Training of the Speaker's Voice..... 3
- Speech 21: Principles of Effective Speaking..... 3
- Students who demonstrate marked superiority in Speech may be exempted from this requirement. Such exemption is granted only on the recommendation of the Department of Speech.
- Statistics 53: Introduction to Statistics in Psychology and Education..... 3

#### ACADEMIC ELECTIVES

Electives may be increased through the various exemptions.

#### PHYSICAL EDUCATION

Physical Education 1-2 and 11-12

A student may be exempted from this requirement if registered for less than three courses or regularly employed during the day.

Minimum required credits..... 6

*Work experience, leadership activities, participation in student campus activities, and the utilization of off-campus cultural opportunities.*— Obviously, these cannot be prescribed. Nevertheless, they constitute an important part of the general educational background of prospective teachers. In conference with a staff member of the Department of Education assigned as his general adviser, the student is expected to plan adequate experiences in these areas. Not later than one month after matriculation in the School of Education the student must file in the Office of the Dean a statement of such plans approved by his adviser. He must also keep his adviser informed concerning the fulfillment of his plans and to this end include in plans filed, scheduled conferences with his adviser.

Success of the student in enriching his general educational background by these means will be taken into consideration at the end of the first

term of the junior year when the faculty will review the qualifications of candidates to determine any who are not of sufficient promise as prospective teachers to warrant continuation of their candidacies. Success in these activities will also be considered when the list of candidates is again reviewed early in the last term of the senior year immediately after the results of the National Teacher Examinations are available. In estimating the success of the student in this connection, more weight will be given to evidence of initiative, eagerness to make the most of each experience, balance, and quality of experience than to the number of different experiences.

Although the student is not required to establish a program of non-academic activities until he becomes a degree candidate in the School of Education, he is advised to do so as soon as he enters the Junior College. To this end, he should consult with the Junior College adviser of students in the pre-Education curriculum soon after entering the Junior College. Whatever is accomplished in this connection while in the Junior College will reduce the obligations of the student after admission to the School of Education.

#### TEACHING FIELD PREPARATION

Teaching field preparation depends upon the kind of teaching position for which the student is preparing. Those planning to teach in elementary schools need a degree of competency in several fields. Those preparing to teach in junior or senior high schools must demonstrate competency in a major teaching field and a minor teaching field. Ordinarily, students preparing to teach in evening schools for adults are required to prove competency in only one teaching field.

The student should begin teaching field preparation while in the Junior College and should make provision for it in planning his program of studies.

Teaching field requirements include satisfactory completion of prescribed academic courses, a satisfactory score on the special field examination of the National Teacher Examinations, and satisfactory completion of the prescribed special methods course.

Prescribed academic courses vary in number in accordance with the scope and complexity of the teaching field and the license requirements of the various states. Minimum academic course requirements for each major teaching field are listed on succeeding pages. Minor teaching field requirements are somewhat less than those of a major field. They are determined in conference with an adviser.

The prescribed course in special methods is concerned primarily with methods of initiating, guiding, and evaluating learning experiences dealing with the content of the teaching field. It attempts to bring to the student specific suggestions drawn from the accumulated experience of



successful teachers. However, in addition, the course reviews the teaching field content currently in use in schools and the examination at the end of the course provides the final test of competency in the teaching field.

### Prescribed Courses in the Various Teaching Fields

ART		Credit Hours
One two-term course from the following group.....		6
Art 121-22 World History of Art.....		
Art 151-52 Modern Art.....		
Art 161-62 History of Art Criticism.....		
One two-term course from the following group.....		6
Art 131-32 The Decor of the Home.....		
Art 141-42 Interior Decoration.....		
Art 143-44 Folk Arts of America.....		
Two two-term courses from the following group.....		24
Art 67-68 Life and Portraits—Drawing and Painting.....		
Art 71-74 Still Life and Portraits—Drawing and Painting, Antique Drawing.....		
Art 165-66 Life and Portraits—Drawing and Painting.....		
Art 175-76 Composition.....		
Art 179-80 Sculpture.....		
Art 181-82 Decorative and Commercial Art.....		
Art 183-84 Advanced Commercial Art.....		
Education 141-42 Teaching Art.....		
Total.....		42

### BIOLOGY

Biology 1-2 Science in Biology.....	6
Biology 1 Structure and Function of the Flowering Plant.....	4
Zoology 1-2 Introduction to Zoology.....	8
Physiology 111 Physiology.....	3
Human Biology 151 Nutrition.....	3
Advanced course prescribed by the student.....	12
Education 144 Teaching Science.....	3
Total.....	47

### BUSINESS EDUCATION

Education 1-2 Introductory Business.....	6
Business Administration 31 Introductory Accounting.....	3
Secretary Studies 31 Business Correspondence and Routine.....	3
Additional courses prescribed by one of the following groups.....	
Group 1—Secretarial Studies.....	
Secretary Studies 32 Intermediate Typewriting.....	2
Secretary Studies 32 Shorthand and Transcription.....	4
Secretary Studies 33 Advanced Shorthand, Typewriting, and Transcription.....	3
Secretary Studies 36 Secretarial Shorthand, Typewriting, and Transcription.....	3
Secretary Studies 54 Secretarial Practice.....	3



*The School of Education*

15

Additional courses as approved by the Adviser.....	6
Education 151: Teaching Business Education.....	2
Total.....	35
Group 2—Bookkeeping, Business Arithmetic, and Business Law	
Business Administration 52: Introductory Accounting.....	3
Business Administration 101: Business Organization and Com- putation.....	3
Business Administration 102: Business Management.....	3
Statistics 521: Mathematics of Finance.....	3
Physical Science 127-281: Commercial Law.....	6
Two of the following courses, as approved by the Adviser.....	6
Business Administration 115: Business Finance	
Business Administration 118: Investments	
Business Administration 128: Insurance	
Business Administration 135: Analysis of Financial Statement	
Business 121: Money and Banking	
Education 150: Teaching Business Education.....	2
Total.....	38

Group 3—Distributive Education

Business Administration 171: Marketing.....	3
Business Administration 172: Marketing Problems.....	3
Business Administration 101-02: Problems in Retailing.....	6
Business 141: Labor Economics.....	3
Two of the following courses, as approved by the Adviser.....	9
Physical Science 127: Commercial Law, Contracts, Agency, and Insurance	
Physical Science 128: Commercial Law, Negotiable Instru- ments, Property, Sales, Mortgages	
Home Economics 123: Household Finance and Problems of the Consumer	
Business Administration 173: Comparative Marketing	
Business Administration 101-02: Problems in Retailing	
Education 143: Teaching Business Education.....	2
Total.....	38

CHEMISTRY

Chemistry 11-12: General Chemistry.....	8
Chemistry 21: Qualitative Inorganic Analysis.....	4
Chemistry 22: Quantitative Inorganic Analysis.....	4
Chemistry 151-52: Organic Chemistry.....	8
Chemistry 101: History of Chemistry.....	2
One of the following two-term courses.....	8-10
Chemistry 111-12: Physical Chemistry	
Biochemistry 211-22: Biochemistry	
Education 144: Teaching Science.....	2
Total.....	36-38

ELEMENTARY EDUCATION

Education 123-24: Reading Problems.....	6
Two of the following courses.....	6

Education 224: New Developments in Children's Literature	
English 125: The Evolution of Modern Speech	
English 126: The Appreciation of Literature	
Speech 175-76: Speech Correction	
One of the following two-term courses.....	6
History 39-40: The Development of European Civilization	
Economics 1-2: Introductory Economics	
Geography 51-52: Introduction to Geography and Earth Sciences	
Political Science 9-10: Government of the United States	
One of the following two-term courses or two one-term courses.....	6
Biology 1-2: Survey in Biology	
Biology 5: Field Botany	
Home Economics 55: Nutrition and Its Relation to Health	
Physical Education 121: School and Community Health Programs	
Physiology 115: Physiology	
Zoology 5-6: Field Zoology	
One of the following two-term courses or two one-term courses.....	6
Education 209-10: Child Growth and Development	
Home Economics 104: Child Nutrition	
Home Economics 181X: The Child in the Home	
Psychology 29: Child Psychology	
One of the following two-term courses or two one-term courses.....	6
Art 71-72: Introduction to the Arts in America	
Art 101-2: The Design of the Home	
Art 141-42: Interior Decoration	
Art 143-44: Folk Arts of America	
Home Economics 123: Household Finance and Problems of the Consumer	
Psychology 2: Applied Psychology	
Psychology 98: Abnormal Psychology	
One of the following two-term courses.....	6
Education 221-22: Early Childhood Education	
Education 225-27: Elementary Education in the Intermediate Grades	
Total.....	42

## ENGLISH

English 100: Freshman English	3
Speech 10: Freshman Speech	3
Speech 41: Public Speaking	3
English 11-22: Introduction to English Literature	6
English 23: Introduction to American Literature	3
English 101: The History of Modern Speech	3
English 102: The Appreciation of Literature	3
English 111-12: Shakespearean Literature	6
One of the following two-term courses or two one-term courses.....	6
English 103: The English Novel	
English 104: The English Drama	
English 105-06: The Romantic Movement	
English 107-08: Victorian Literature	
English 109: The American Drama	
English 175-76: English American Literature	
Education 176: Teaching English	
Total.....	42

FRENCH

French 1-2: First-year French.....	6
French 3-4: Second-year French.....	6
French 109-110: French Conversation and Composition.....	6
French 131-132: History of French Civilization.....	6
Additional courses in French as approved by the Adviser.....	12
Education 146: Teaching Foreign Languages.....	3
Total.....	39

GERMAN

German 1-2: First-year German.....	6
German 3-4: Second-year German.....	6
German 107-8: Advanced Prose Composition.....	2
German 115-16, 117-18: Survey of German Literature.....	12
Additional courses in German as approved by the Adviser.....	6
Education 146: Teaching Foreign Languages.....	3
Total.....	35

HISTORY

History 39-40: The Development of European Civilization.....	6
History 71-72: The Development of American Civilization.....	6
Six credit hours, as approved by the Adviser, from each of the following groups.....	18
Group 1—American History.....	
History 171-72: Social History of the United States.....	
History 181-82: Diplomatic History of the United States.....	
History 174: Economic History of the United States.....	
Group 2—European History.....	
History 181-82: English History.....	
History 131-32: Netherlands.....	
History 133-34: Modern Imperialism.....	
History 145-46: Russian History.....	
History 147: European History of Europe.....	
History 149-50: European International Politics.....	
Group 3—Latin American History.....	
History 161-62: Latin American History.....	
History 163-64: Current Latin American Problems.....	
Additional credit hours, as approved by the Adviser from one of the following groups.....	6
Education 148: Teaching the Social Studies.....	2
Total.....	58

MATHEMATICS

Mathematics 3: College Math.....	3
Mathematics 6: Plane Trigonometry.....	3
Mathematics 12: Analytic Geometry.....	3
Mathematics 19: Differential Calculus.....	3
Mathematics 20: Integral Calculus.....	3
Mathematics 125: Algebraic Methods.....	3
Mathematics 132: Differential Equations, etc.....	3
Mathematics 139: Algebraic Geometry.....	3

An additional course in Mathematics as approved by the Adviser....	3
Statistics 52: Mathematics of Finance.....	3
Education 140: Teaching Mathematics.....	2
Total.....	29

## PHYSICS

Physics 5, 6, 7, and 8: General Physics.....	11
Physics 55: Physical Measurements.....	2
Physics 119: Optics.....	3
Physics 121: Mechanics.....	3
Physics 125: Principles of Electricity.....	3
Mathematics 12: Analytic Geometry.....	3
Mathematics 19: Differential Calculus.....	3
Mathematics 20: Integral Calculus.....	3
Chemistry Elective—Chemistry 11, 12: General Chemistry.....	
Chemistry 12-21: General Chemistry and Qualitative Inorganic Analysis.....	8
See credit hours to be selected from the following.....	6
Physics 113: Molecular and Atomic Physics.....	
Physics 119: Heat and Thermodynamics.....	
Physics 128: Sound.....	
Physics 134: Electronics.....	
Physics 145: Modern Experimental Physics.....	
Physics 155: Advanced Physical Measurements.....	
Education 144: Teaching Science.....	2
Total.....	47

## SOCIAL STUDIES

History 32-40: The Development of European Civilization.....	6
History 71-74: The Development of American Civilization.....	6
Political Science 9-11: Government of the United States.....	6
Two of the following courses.....	12
Economics 1-2: Introductory Economics.....	
Geography 51-52: Introductory to Geography and Earth Sciences.....	
Sociology 1-2: Orientation and Principles of Sociology.....	
Additional second-grade courses as approved by the Adviser from one of the following fields: Economics, Geography, History, Political Science, Sociology.....	12
Education 138: Teaching Social Studies.....	3
Total.....	45

## SPANISH

Spanish 101: Elementary Spanish.....	6
Spanish 104: Second-year Spanish.....	6
Spanish 132-134: Spanish Vocabulary and Grammar.....	18
Additional courses as approved by the Adviser.....	3
Education 141: Teaching Foreign Languages.....	
Total.....	30



## SPEECH

Speech 11. Training the Speaking Voice	3
Speech 12. Oral Reading	3
Speech 21-22. Public Speaking	5
Speech 122. Oral Interpretation of Literature	5
Additional courses as approved by the Adviser from the following	15
Speech 41. Parliamentary Law	
Speech 69. Introductory Theatre Practice	
Speech 115. Argumentation and Debate	
Speech 151-52. Acting	
Speech 153. Play Direction	
Speech 173-75. Speech Correction	
Education 136. Teaching English	2
Total	32

## PROFESSIONAL EDUCATION

The basic professional information and skills needed by beginning teachers are provided through four one-year courses, two in each of the junior and senior years. Lectures and class discussions are closely coordinated with field work. Instruction is differentiated to meet the needs of those preparing to teach on the various levels—elementary school, junior high school, senior high school, and adult.

## Professional Courses

Education 127-131. Learning and Teaching	6
Education 132-134. Society and the School	6
Education 135. Classroom Teaching Skills	3
Education 136-138. Supervising Methods	2-3
Education 139-144. Observation and Practice Teaching	6
Total	24-27

**Learning and Teaching.**—Candidates enrolled in four-year programs leading to the degree of Bachelor of Arts take this course in the junior year. Those enrolled in five-year programs take it in the senior year.

The course attempts to promote a functional understanding of the nature of learning and teaching by focussing the attention of the student upon actual classroom situations and the psychological, sociological, and educational principles relevant to them.

Classes meet for lecture and discussion two hours a week. At least an equal amount of time is spent in observation and study of classroom situations. Class discussion normally revolves around these field experiences.

The course, particularly during the first term is also intended to provide the student with exploratory experiences of assistance to him in deciding whether or not his choice of the profession of teaching has been wise. The student's performance in connection with the course is one

of the factors considered when the Faculty reviews the list of candidates who have completed the first term of the junior year (senior year for those enrolled in five-year programs).

*Society and the School.*—This course is also taken in the junior year by candidates enrolled in four-year programs (senior year by those in five-year programs).

The first term of the course attempts to promote an understanding and appreciation of the role of schools in the sound promotion of the enduring interests of our democratic society. More particularly, it attempts to develop a functional understanding of the contributions of all social agencies in the education of people and of desirable cooperative working relations that help the school to play its part as a member of the institutional "team" of the community.

The second term of the course is concerned with study of the school as a whole—its purposes, program of studies, out-of-class activities, general organization, and major instructional problems. Although schools at all levels are studied, students give particular attention to schools at the level within which they are preparing to teach.

During both terms of this course classes meet for lecture and discussion two hours a week. At least an equal amount of time is spent in field study. During the first term each student makes an extended study of one cooperating social institution and shorter studies of ten others. In the second term extended study of schools at the level of the student's special interest is supplemented by briefer studies of schools at other levels. Class discussion is largely determined by field experiences.

This course is also intended to provide the student with exploratory experiences of guidance value. The performance of the student in the first term of the course is also given careful consideration by the Faculty in its review of the list of candidates at the beginning of the second term of the junior year (senior year for those enrolled in five-year programs).

*Common Teaching Skills.*—Those enrolled in four-year programs take this course in the senior year. Those enrolled in five-year programs take it in the fifth year.

The course is concerned with the skills needed by teachers in connection with classroom management, homeroom procedures, administrative routines, activity sponsorship, group planning, and public relations.

As in other professional courses, classes meet two hours a week for lecture and discussion and students devote at least an equal amount of time to field work. The observation of classroom teaching done in connection with the Observation Course (Education 133), for which students are normally enrolled concurrently, supplements the field work of the course.

*Special Methods Courses.*—Associated with each teaching field is a course dealing with its special teaching problems. In addition to the study of practices followed by successful teachers, actual teaching content as found in current texts and courses of study is reviewed. Needed content, not included in academic courses available for teaching field preparation, is taught in these courses.

*Observation and Practice Teaching.*—This course is taken in the senior year by students enrolled in four-year programs (in the fifth year by those in five-year programs).

It begins with the observation of classroom teaching in selected situations. Assumption of responsibility for teaching functions is gradual, leading eventually to practice in the complete direction of classroom activities. Those preparing to teach in secondary schools have the opportunity of observing and doing practice teaching in both major and minor teaching fields and on both junior and senior high school levels. The course is directed by a full-time member of the faculty of the School of Education. The work of each student is under the direct supervision of a critic teacher, selected because of unusual success in teaching, ability to supervise, and broad understanding of educational problems. Critic teachers are part-time members of the instructional staff of the School. Observation and teaching are done in the public schools of the metropolitan area of Washington, assuring practice in situations comparable to those the student is likely to face on becoming a teacher.

#### ADMISSION

To be admitted to candidacy for the degree of Bachelor of Arts in Education, the applicant must: (1) hold an Associate in Arts degree based on the Education Curriculum in the Junior College or the equivalent from another accredited higher institution, or a certificate of graduation from an approved normal school or the equivalent; (2) have a quality point index of 2.00 (average grade of C) in college; (3) have demonstrated a genuine interest in teaching and possess personality traits that give promise of success as a teacher.

#### FIVE-YEAR PROGRAMS LEADING TO THE DEGREES OF BACHELOR OF ARTS AND MASTER OF ARTS IN EDUCATION

Five-year programs are designed: (1) to permit more adequate teaching field and professional preparation, (2) to prepare for special teaching positions, and (3) to meet teaching-certificate requirements based upon five years of preparation.

Students in these programs usually devote the junior year to additional teaching field preparation and general education. Ordinarily teaching field preparation is continued in the senior year and the first



two professional courses (Education 109-10, 121-22) are taken. The work of the fifth year includes the remaining undergraduate professional courses and the balance of graduate courses needed to meet the requirements of the degree of Master of Arts.

Candidates must have a quality-point index of at least 2.50 before beginning the work of the senior year. As much as 18 credit hours of the work of the senior year may be taken for graduate credit. Observation and Practice Teaching, taken in the fifth year, may not be taken for graduate credit.

Candidates enrolled in five-year programs are able to prepare more adequately in their major or minor teaching fields, or in both. Additional teaching field courses must be approved by the Adviser in the teaching field concerned.

The five-year plan of study also provides an opportunity for candidates to prepare to teach "common learnings" courses in one or more of the various core curriculum plans now being adopted in many secondary schools. Such programs need to be carefully planned to meet the demands of the situation in which the candidate hopes to teach.

A number of cities and some states require five years of satisfactory preparation before issuing certain teaching certificates. Candidates seeking such certificates should familiarize themselves with the requirements of the community or state concerned and plan their programs accordingly.

Five-year programs must meet all the requirements of the degrees of Bachelor of Arts and Master of Arts in Education, and must be approved by the Adviser designated for these programs.

#### PROGRAMS LEADING TO THE DEGREE OF MASTER OF ARTS IN EDUCATION

Programs of study leading to the degree of Master of Arts are designed: (1) to enable teachers of experience to increase their knowledge of professional and academic information and skills, (2) to prepare for special types of educational service, and (3) to provide opportunities for graduates of liberal arts colleges to acquire needed professional education.

Programs are planned in conference with the designated Adviser and take into consideration the interests of the candidate, his previous background, and the certification requirements of the state and locality in which he plans to teach.

#### PLANS OF STUDY

Two general plans of study lead to the degree.

*Plan 1.*—This plan requires a minimum of 30 hours of graduate credit, including a thesis carrying 6 hours of graduate credit.



*Plan 2.*—This plan requires a minimum of 33 hours of graduate credit, including a course in *Educational Research Methods and Procedures* carrying 3 hours of graduate credit.

Graduate work completed in other accredited institutions of learning may be credited toward the Master's degree, but a minimum of 30 credit hours must be completed in the School of Education of The George Washington University.

Under Plan 1, a minimum of 12 credit hours, in addition to the thesis, must be from courses planned primarily for graduate students (third-group courses). Under Plan 2, a minimum of 18 credit hours, in addition to the course in *Educational Research Methods and Procedures*, must be from third-group courses. Under either plan a minimum of 12 credit hours, not including the thesis or the research course, must be from courses offered in the Department of Education.

Programs may provide for additional academic preparation in one or more teaching fields. In such cases, however, undergraduate and graduate courses combined must be at least equivalent to the undergraduate requirements for the degree of Bachelor of Arts in Education in the teaching field concerned.

Programs are normally based upon undergraduate preparation equivalent to the requirements of the degree of Bachelor of Arts in Education (see pages 11-12). Candidates with less professional preparation must make up their deficiencies either prerequisite to or as part of their graduate study.

Each candidate must file in the Office of the Dean not later than one month after admission to the School of Education a program of study approved by his Adviser.

All candidates must take, at one of the designated periods, a professional comprehensive examination which shall take into account the candidate's area of specialization.

#### PROGRAMS OF STUDY

In accordance with the foregoing general pattern of requirements, graduate programs of study are available in:

Early Childhood Education	Adult Education
Elementary Education with Specialization	Language Teaching
Middle Grades	International Education
Elementary School Administration	Education
Secondary School Administration	Teaching Field in Secondary Education
Guidance	

#### ADMISSION

To be admitted to candidacy for the degree of Master of Arts in Education the applicant must: (1) hold a Bachelor's degree from an

accredited institution; (2) have an undergraduate quality-point index of 2.50 or above (C + average); (3) have demonstrated a genuine interest in teaching; (4) be in possession of personality traits that give promise of better-than-average success as a teacher.

To be admitted to candidacy in programs designed to prepare for service in guidance and administration two years of successful teaching experience are prerequisite.

#### PROGRAM LEADING TO THE DEGREE OF DOCTOR OF EDUCATION

The requirements for the degree of Doctor of Education cannot be stated in credit hours, but they consist in general of at least two full years of work beyond the degree of Master of Arts in Education or the equivalent. The programs of study are designed to prepare students for administrative or supervisory positions, the teaching of education in normal schools or colleges, the teaching of an academic subject in schools or colleges, or for specialized types of educational service. The work is given a practical rather than a theoretical bent, and emphasizes the mastery and application of subject matter, both in the study requirements and in the dissertation. Special emphasis is placed upon the professional success of the candidate.

The candidate's program of study depends for the most part upon his previous educational background and his professional objective. Opportunities are provided for study leading to the following professional objectives:

School Superintendent  
Secondary School Principal  
Supervisor  
Director of Guidance

Director of Curriculum Development  
Professor of Education  
Specialist in Educational Research

#### QUALIFICATIONS OF THE APPLICANT

The candidate for the degree of Doctor of Education must have completed (1) graduate work in fields prerequisite to his objective, equivalent to that required for the degree of Master of Arts in Education in The George Washington University, and (2) at least three years of successful educational experience.

#### ADMISSION TO CANDIDACY

To be admitted to candidacy for the degree the applicant must be accepted by the Faculty of the School of Education on the basis of an examination conducted by a committee appointed by the Dean. This examination will usually include the following: (1) a written examination involving problems related to the applicant's background; (2) a scholastic-aptitude test; (3) an oral examination.

## CONSULTATIVE COMMITTEE

If the applicant is accepted as a candidate, his consultative committee, in cooperation with the candidate, will (1) determine the candidate's fields of study, in each of which the candidate must pass a written examination at least eight months before he presents himself for the degree; (2) formulate a list of course requirements and of readings that will assist him in preparing for these examinations; and (3) designate the tools of investigation that will be needed by the candidate in the prosecution of his study. These tools may include one foreign language, or more, statistical methods, historical criticism, or any others considered essential by the committee. An examination in the tools designated must be passed by the candidate before he takes his comprehensive examination.

## THE DISSERTATION

When the candidate has satisfied the requirements of his consultative committee, the committee is dissolved. A member of the faculty, in whose field the topic of the dissertation falls, is then appointed to serve as the candidate's adviser on his dissertation and in his field of specialization, and to recommend him to the Dean for the final oral examination when, in his judgment, the candidate's dissertation is acceptable.

Not later than the date specified in the University calendar the candidate shall submit to the Dean of the School of Education four copies of his dissertation—one typewritten original and three legible and complete carbon copies, on official thesis paper—and also a typewritten summary of the dissertation consisting of not more than 2,500 words. Requirements regarding the form of the dissertation are stated in the general catalogue and additional information will be supplied by the Dean.

The successful candidate is required, at the time of the acceptance of the dissertation, to pay a fee to cover the expense of printing the summary.

## THE FINAL EXAMINATION

At least three weeks before the degree is to be conferred the candidate must pass an oral examination on his dissertation and on his field of specialization before a committee of the Faculty appointed by the Dean, supplemented by two experts from outside the University appointed by the President. This examination is open to the public and all are privileged to question the candidate. The Dean, or a member of the Faculty designated by him, will preside at this examination.



## READING CLINIC

To help children and adults with reading difficulties, the School of Education operates a diagnostic reading clinic. Children may be referred by principals, teachers, or parents. Adults may apply by telephone.

To arrange for a clinical examination of reading status, address The George Washington University Reading Clinic, 720 Twenty-second Street, N.W., or telephone NAtional 5200, Extension 451, for an appointment. The Clinic is open for appointments Monday, Wednesday, and Friday, from 9:00 A.M. to 12:00 noon.

A complete diagnostic examination usually requires three sittings. When completed, a written report is given and a conference arranged at which disabilities are discussed in detail and suggestions for corrective work are outlined. The fee is \$20.00.



## FEES AND FINANCIAL REGULATIONS

By authorization of the Board of Trustees, the following fees have been adopted:

### TUITION FEES

For each credit hour for which the student registers (except work taken by a candidate for a Doctor's degree).....	\$12.00
For the degree of Doctor of Education.....	
For work leading to and including the general examination.....	36.00
For work leading to and including the final examination.....	36.00

### ADDITIONAL COURSE FEES

In certain courses additional fees and deposits, such as laboratory, or practical teaching fees, are charged as indicated in the course descriptions.

### GRADUATION FEES

Wherein the Bachelor's degree is granted.....	20.00
Wherein the Master's degree is granted.....	20.00
Wherein the degree of Doctor of Education is granted.....	20.00

FEE FOR BINDING MASTER'S THESIS.....	4.00
FEE FOR PRINTING AND FILING SUMMARY OF DOCTORAL DISSERTATION.....	50.00

### SPECIAL FEES

Application fee, charged all applicants for admission.....	3.00
Late registration fee, charged each student who fails to register within the designated period.....	5.00
Withdrawal fee, charged each student who preregisters and withdraws prior to the term of registration.....	5.00
Service fee, charged each student for late payment of tuition (see "Payment of Fees").....	1.00
Reinstatement fee, charged each student who is reinstated after suspension for delinquency in fees.....	5.00
Residence fee, charged each student wishing to maintain "in residence" status during any term of absence from the University.....	12.00
For special physical examination.....	2.00
For examinations to qualify for advanced courses and for all special examinations.....	5.00
For diagnostic reading clinic.....	20.00

### PAYMENT OF FEES

All fees are payable at the Office of the Cashier, 725 Twenty-first Street, NW. No student is permitted to complete registration or to attend classes until all fees are paid. Fees for each term are due and payable in advance at the time of registration.

In exceptional cases, subject to the approval of the Comptroller, the student may sign a contract for term charges, except for fees payable in advance, permitting payments as follows:

*Fall Term.*—One third at the time of registration; one third on November 3; one third on December 3.

*Winter Term.*—One third at the time of registration; one third on March 3; one third on April 4.

A student who fails to meet payments when due, but who pays his fees on or before the tenth day of the month in which payment is due, is charged a service fee of \$1. A student who fails to meet payments by the tenth day of the month in which payment is due will be suspended and may not attend classes until he has been officially reinstated and has paid all accrued fees and a reinstatement fee of \$5.

A suspended student may not be reinstated for the term after two weeks from the date of suspension. Applications for reinstatement are to be made to the dean of the college, school, or division in which the student is registered.

An auditor pays all fees chargeable to the student registered for credit except the late-registration fee.

#### WITHDRAWALS AND REFUNDS

Application for withdrawal from the University or for change in class schedule must be made in person or in writing to the dean of the college, school, or division in which the student is registered. Notification to an instructor is not an acceptable notice.

In authorized withdrawals and changes in schedules, financial adjustments will be made as follows:

*Fall Term.*—Withdrawal dated on or before October 30, cancellation of the second and third payments; withdrawal dated on or before November 30, cancellation of the third payment. No refund or reduction will be allowed on a withdrawal dated subsequent to November 30.

*Winter Term.*—Withdrawal dated on or before February 28, cancellation of the second and third payments; withdrawal dated on or before March 31, cancellation of the third payment. No refund or reduction will be allowed on a withdrawal dated subsequent to March 31.

In no case will the University fee or any part of an initial payment of fees be refunded, and in no case will tuition be reduced or refunded because of nonattendance upon classes.

Payment applies only to the term for which a registration charge is incurred and in no case will this payment be credited to another term.

A fee of \$2 is charged any student in chemistry who fails to check out of the laboratory by the time set by the instructor, or, if he drops a course, at the time such change in his schedule is approved.

Authorization to withdraw and certification for work done will not be given a student who has not a clear financial record.

## COURSES OF INSTRUCTION

### EXPLANATION OF COURSE NUMBERS

An odd number preceding the name of the course indicates that the course is offered in the fall term, and an even number, that it is offered in the winter term. The letter "x" following an odd course number (e.g., 295x) indicates that the course, normally offered in the fall term, is given in the winter term. The letter "x" following an even course number indicates that the course, normally offered in the winter term, is given in the fall term.

*First group courses.*—Courses numbered from 1 to 100 are planned for students in the freshman and sophomore years. With the approval of the adviser and the dean they may also be taken by juniors and seniors. In certain instances, they may be taken by graduate students to make up undergraduate deficiencies or as prerequisite to advanced courses, but they may not be credited toward a higher degree.

*Second group courses.*—Courses numbered from 101 to 200 are planned for students in the junior and senior years. They may be credited toward higher degrees only when registration for graduate credit has been approved at the beginning of the course by the Dean of the School of Education and by the officer of instruction concerned, and when the completion of additional work has been certified by the officer of instruction.

*Third group courses.*—Courses numbered from 201 to 300 are planned primarily for graduate students. They are open, with the approval of the officer of instruction to qualified seniors; they are not open to Junior College students or other undergraduates.

### INDICATION OF THE AMOUNT OF CREDIT

The number of credit hours given for the satisfactory completion of a course is indicated in parentheses after the name of the course. Thus, a year course giving three hours of credit each term is marked (3-3), and a term course giving three hours of credit is marked (3).

### DEPARTMENT OF EDUCATION

Courses offered by the Department of Education are of two types: those designed for the preservice education of candidates and those planned for the inservice education of teachers.

Preservice courses devote two fifty-minute periods a week to lecture and discussion supplemented by a minimum of two hours a week of related field work. A clinical approach to the study of educational



problems is used, lectures and discussions revolving around observed practices.

Inservice courses usually meet only once a week for a two-hour period. Class work is supplemented by extensive reading assignments, the preparation of reports, and field work. A student enrolled in one of these courses should plan to devote not less than seven hours a week, exclusive of class time, to the work of the course.

Ample opportunity is provided to study teaching or administrative problems of special interest. To enable students to consult with instructors regarding individual problems, a conference hour is scheduled immediately before or after the class period.

Only the courses designed to provide professional information and skills are listed below. For courses needed for general education or teaching field preparation, see the general catalogue. In addition to courses offered in the Department of Education a number of professional courses for teachers are offered in the departments of Psychology, Speech, and Statistics. These are listed below together with courses offered by the Department of Education.

The exact hour at which classes will be held is stated only for the fall term of 1948-49. Class hours for courses offered in a later term will be found in the Schedule of Classes for that term.

#### FIRST GROUP

##### Psychology 22 *Introduction to Educational Psychology* (3)

Consideration of individual and group differences, adjustments, and the psychology of learning in relation to education and teaching.

Psychology 22x—same as Psychology 22, but offered fall term. Mon. and Wed., 5:45 to 7 P.M.

##### Psychology 29 *Child Psychology* (3)

Phillips

A generic approach to the study of the child. Tues. and Thurs., 11:15 A.M. to 12:25 P.M.

Psychology 29x—same as Psychology 29, but offered winter term.

##### Statistics 53 *Introduction to Statistics in Psychology and Education* (3)

Weida and Staff

Sources of data, tabulation, charts and graphs, averages, dispersion, quartiles and percentiles, raw scores and derived scores, problems, means and their use, frequency distributions, intelligence and other aptitudes, reliability and validity of tests, normal curve, correlation, elementary sampling, statistical error, limitations of statistics. Prerequisite: one entrance unit in algebra. Laboratory fee, \$5. Section A: Tues. and Thurs., 1-1:45 A.M. Section B: Mon. and Wed., 7:10 P.M.

Statistics 53x—same as Statistics 53, but offered winter term.



## SECOND GROUP

- Statistics 174 *Statistics in Psychology and Education* (3) Weida  
Advanced study of correlation and regression analysis, sampling theory, factor analysis, and applications to specific problems utilizing cross method of study insofar as possible. Original work is required at each session.  
Prerequisite: Statistics 51. Laboratory fee, \$5.
- Education 109-110 *Learning and Teaching* (3-3) Ruffner  
For the general student as well as the prospective teacher. Fall term, nature of learning and teaching approached through the study of actual classroom situations. Winter term, the principles and procedure of good teaching. Section A: Wed. and Fri., 10-12 A.M.; section B: Wed. and Fri., 6-8 P.M.; field work (2 hours) to be arranged. (Also offered that summer term.)
- Education 115 *Elementary School Classroom Procedures* (3) Barnes  
Demonstration of children's needs and interests, providing for individual differences, evaluation of classroom practices.  
Summer term 1948.
- Education 121-22 *Society and the School* (3-3) Jarmen, Wilson  
For the general student as well as the prospective teacher. Fall term, the local, national, and international role of education; comparison of the school with other community agencies. Winter term, organization and operation of schools, curriculum and function. Section A: Tues. and Thurs., 10-12 A.M.; section B: Thurs. and Thurs., 6-8 P.M. (field work 2 hours) to be arranged. (Also offered 1948 summer term.)
- Psychology 121 *Educational Psychology* (3)  
Advanced course in Educational Psychology. Open each term to the individual study plan to a limited number of students. Time to be arranged.
- Education 123-24 *Reading Problems* (3-3) Hilder  
A critical approach to reading difficulties on elementary and secondary school levels. Sat., 9-11 to 11-12 A.M.
- Education 125 *Corrective Procedures in Reading* (3) Hilder  
Study of levels, needs, materials, and corrective methods. Demonstrations and observations with classroom.  
Summer term 1948.
- Education 131 *Common Teaching Skills* (3) Root  
Course, unit, and lesson planning; classroom procedures; discipline; social relations; activity organization; classroom procedures; public relations. Mon., Wed., and Fri., 5-7 P.M.; field work (2 hours) to be arranged.
- Psychology 131 *Psychological Tests* (3) Hunt  
A survey of psychological tests and their more common uses in business, industry, government, law, medicine, and education. Material fee, \$2.25. Mon., Wed., and Fri., 1-3 P.M.

Education 133-34 *Observation and Practice Teaching* Root  
(2 to 6)

Education 134, practice-teaching fee, \$8 a credit hour. Admission by permission of the instructor. Time and credits to be arranged individually.

Psychology 144 *Personnel Psychology* (3) Mosel

The applications of psychology to personnel work in education, business, industry, and government.

Psychology 144X—same as Psychology 144, but offered fall term. Tues. and Thurs., 6:10 to 7:25 P.M.

### SPECIAL METHODS COURSES

To be elected in the second term of the senior year after substantial preparation in the teaching fields concerned. Course requirements and hours of credit vary with license requirements. Practices of successful teachers are studied and actual teaching content as found in current texts and courses of study is reviewed.

Education 136 *Teaching English* (2 to 4) Lumsden

Tues., 7:35 to 9:35 P.M.; field work (2 hours) to be arranged.

Education 138 *Teaching Social Studies* (2 to 4) Root

Mon., 7:10 to 9:10 P.M.; field work (2 hours) to be arranged.

Education 140 *Teaching Mathematics* (2) Weida

Time to be arranged.

Education 141-42 *Teaching Art* (3-3) Goodwin

Sat., 9:15 to 11:00 A.M.

Education 144 *Teaching Science* (2 to 4) Rumbough

Wed., 5:15 to 7:00 P.M.; field work (2 hours) to be arranged.

Education 146 *Teaching Foreign Languages* (2 to 4) Doyle, Keating

Time to be arranged.

Education 148 *Teaching Home Economics* (2) Kirkpatrick

Time to be arranged.

Education 150 *Teaching Business Education* (2 to 6) Veon

Time to be arranged.

Speech 175-76 *Speech Correction* (3-3) Pett

A study of the causes of the disorders of speech with emphasis on methods in diagnosis and treatment of defective speech. Prerequisite: Speech 171 and 172, or permission of the instructor. Reading fee, \$1 a term. Tues., Wed., and Fri., 2:10 P.M.; Thurs. and Thurs., 1:10 to 2:25 P.M.

## THIRD GROUP

- Education 205-06 *The Curriculum* (3-3) Hoppe  
General principles and practice of curriculum development, selection, trends and procedures of improvement, group consideration of student problems. Sat., 11:45 A.M. to 1:15 P.M.
- Education 207 *Curriculum Planning* (3) Hoppe  
Relation of course of study to the curriculum, recent history underlying various of study construction, analysis of procedure, review of typical published sources, applications to the student's own program. Semester term 1948.
- Education 209-10 *Child Growth and Development* (3-3) Hoppe  
Basic theory in human growth and development and their relation to learning and teaching. Recent practical experience in studying children with short analyses of procedure and results. Wed., 7:45 to 9:15 P.M. (Also offered 1948 summer term—Education 209 (3) (Raffner).)
- Education 211 *Evolution in Education* (3) Ruffner  
Nature, functions, and techniques. (Not offered in 1948-49.) Semester term 1948.
- Education 213-14 *History of Education* (3-3)  
Fall term: the European background of American education. Winter term: the evolution of the American school system. Tues., 7:45 to 9:15 P.M.
- Education 215-16 *Seminar: Great Teachers in American Education* French  
*Education* (3-3)  
A study of great teaching men and school systems of the present. An attempt will be made to find out the nature and measurement of the basic traits these teachers possess. Thurs., 7:45 to 9:15 P.M.
- Education 217-18 *Contemporary Problems in Education* Upton  
(3-3)  
Fall term: designed to help students formulate a personal philosophy of education. Winter term: a study of the forces that shape the policies and objectives of the school. Mon., 7:45 to 9:15 P.M. (Also offered summer term—Education 218 (3).)
- Education 220 *The Modern Elementary School* (3) Holladay  
Historical development, current organization, comparison with other countries. Semester term 1948.
- Education 221-22 *Seminar: Early Childhood Education* Little  
(3-3)  
Fall term: basic background, theory, actual and kindergarten situations. Winter term: primary grades. Fri., 7:45 to 9:15 P.M.
- Psychology 221X *Seminar: Educational Psychology* (3) Dreese  
A survey of recent literature on individual differences and learning, with emphasis on their educational application.



Education 223 *Use of Community Resources by Schools* Eaves  
(3)

Surveying the community classroom use of materials, planning and conducting excursions, discussion of community experiences.  
Summer term 1948.

Psychology 223 *Seminar: Learning* (3)

Covers theories of learning. Wed., 8:10 to 10:00 P.M.

Education 224 *Newer Developments in Children's Literature* (3) Walker

Exploring and evaluating the newer books for children and the children's classics; understanding the contribution of literature in child development; appreciating children's original expressions; surveying resources in the field.  
Tues., 7:35 to 9:35 P.M.

Education 225-26 *Seminar: Elementary Education in the Intermediate Grades* (3-3) Little

A comprehensive study of the major problems of the intermediate grades.  
(Not offered in 1948-49.)

Psychology 225 *Seminar: Mental Hygiene* (3) Phillips

A study of problems in the field of mental health and prevention of maladjustments and mental disease. Sat., 10:10 to 12:00 A.M.

Education 227-28 *Elementary Education* (3-3)

First term: discussion of fundamental issues in the light of their historical development, present situation in other countries, and current proposed solutions. Winter term: relationships of developments in each instructional area to the fundamental issues. Sat., 9:10 to 11:00 A.M.

Psychology 227 *Seminar: Educational and Vocational Guidance* (3) Dreese

An introduction to the techniques of educational and vocational guidance and the application of these procedures in various types of guidance centers. Prerequisite: Educational or psychological measurements. Time to be arranged.

Psychology 228 *Seminar: Techniques of Counseling* (3) Dreese

A detailed study of counseling techniques and the types of counseling problems likely to confront teachers, guidance counselors, vocational counselors, and veterans' advisers. Prerequisite: Psychology 227 or the equivalent.

Psychology 229X *Seminar: Occupational and Educational Information* (3)

Directed to assistant vocational and educational counselors with the basic occupational and educational information necessary in counseling. Sources of data and techniques of collecting, analyzing, and disseminating for particular guidance.

Education 230 *Administration of Elementary Education* (3)

The principal as a school and community leader. Problems of supervision, course of study development, parent relations. Thurs., 7:35 to 9:35 P.M.



- Education 231 *Secondary School Classroom Procedures* (3) Bish, Root  
Survey of current classroom practices with particular attention to teaching and learning of recent literature. Tues., 7:35 to 9:35 P.M. (Also offered in 1948 summer term) (3) (Bish)
- Psychology 231 *Test Construction* (3) Hunt  
The process of analyzing test construction statistical techniques in the construction, evaluation, and standardization of psychological, educational, and vocational tests. Prerequisite: a course in tests and measurement and a course in statistics. Fri., 7:10 P.M.
- Psychology 232 *Repetition: Test Construction* (3) Hunt  
Individual projects in construction and evaluation of psychological, educational, or vocational tests. Prerequisite: Psychology 231.
- Education 233 *Audio-visual Education* (3) Luecke  
Selection and use of audio-visual aids; measurement of materials and equipment. Material fee, \$5. Lecture (2 hours); laboratory (2 hours). Sat., 9:10 A.M. to 1:10 P.M.  
Lecture 233—same as Education 233, but offered winter term. Sat., 9:10 A.M. to 1:10 P.M.
- Psychology 233 *Individual Psychological Testing* (3) Phillips  
Introduction and practice in giving the Binet Test, Wechsler-Bellevue Test, and other individual psychological tests. Prerequisite: an elementary course in tests and measurements. Material fee, \$2.25. Mon., 1 P.M. to 3 P.M.
- Education 247-48 *Vocational Education* (3-3) Dennis  
Must cover problems and trends. Mon., 7:10 to 9:10 P.M.
- Education 252a *Guidance in Secondary Schools* (3) \_\_\_\_\_  
Survey, study, consultation of the program served to students, the instructional staff, and the administrative personnel needed for the program. Fri., 7:10 to 9:10 P.M.
- Education 254 *The Junior High School* (3) Bish, Root  
Program, curriculum, care program, guidance, developing sources of interest, extracurricular activities. Tues., 7:35 to 9:35 P.M.
- Education 255-56 *Secondary Education* (3-3) Bish, Root  
The major areas of recent literature and practice, particular attention to Education for All, American youth, the recent report of the International Physics Commission, and General Education in a Free Society. Harvard Curriculum Studies group course includes in each of the recent summer sessions. Sat., 11:10 A.M. to 1 P.M. (Also offered 1948 summer term—Lecture 255 (3) (H); Lecture 256 (3) (Root).)
- Education 259 *for Secondary School Management* (3-3) Fox  
Management planning, execution, and control; criteria of good management; interpretation of the current evidence; leadership problems incident to the development of new policies and programs. Sat., 9:10 to 11:00 A.M.

**Education 263-64 Employee Training (3-3)**

Root

Organization and administration of employee-training programs in accordance with operating needs; orientation, supervisory, and skills training; coordination of training with other personnel functions; evaluation of training. Field work is required. Fri., 7:10 to 9:1 P.M.

**Education 271 The American School System (3)**

Fox

Organization of public education; nature of school system, international and state history, basic administrative needs, the chief basic criteria of building administrative responsibility of teachers. Wed., 7:10 to 9:1 P.M. (Also offered 1948 summer term—Booked.)

**Education 272 The Teacher and School Supervision (3)**

Fox

Nature, organization, human relationships, and techniques. Wed., 7:10 to 9:10 P.M. (Also offered 1948 summer term.)

**Education 273-74 Administration of a School System (3-3)**

A comprehensive survey of the management problems of a beginning superintendent; does not anticipate previous experience as a superintendent. Thurs., 7:35 to 9:35 P.M.

**Education 275 School Finance (3)**

Alves

Educational financial theory, practice, and control, including methods of financing. (Not offered in 1948-49.)

**Education 276 Seminar: Public Relations in School Administration (3)**

Fox

Purpose, nature, content, dissemination, application, and policy relating to public relations in public schools. (Not offered in 1948-49.)

**Education 278x School Law (3)**

Remmlein

Sources and scope of school law; legal rights and responsibilities of teachers, pupils, and taxpayers. Other legal problems of school personnel in the process. (Not offered in 1948-49.)

**Education 279-80 Adult Education (3-3)**

Ruffner

Full term: Nature, extent, and organization of programs in adult education. Winter term: Interest, needs, and organization of adult learners; techniques involved in motivating and directing learning activities. Mon., 7:10 to 9 P.M.

Summer term 1948—Education 279 (3) (Booked.)

**Education 285 Extra-classroom Activities (3)**

Root

Home room functions; student self-government; clubs, assemblies, school publications.

Summer term 1948.

**Education 287-88 Clinical Study of Reading Problems (3-3)**

Hilbert

For advanced students. Diagnostic work under supervision in the Reading Clinic. Admission by permission of the instructor. Sat., 11:10 A.M. to 1 P.M.

Education 280 *Special Education* (3)

A survey of current practice in the treatment of the exceptional child: the physically handicapped; the mentally defective; the gifted. (Not offered in 1948-49.)

Education 291 *Planning the School Plant* (3)

Hamon

Selection of sites; evaluation of existing buildings; selection of present facilities; adaptation to various needs; building expansion; and future building projects. (Not offered in 1948-49.)

Education 293-94 *Research* (3-3)

The Staff

Individual research under the guidance of a member of the staff. Program and conference arranged with an instructor.

Education 295 *Educational Research Methods and Procedures* (3)

Fox

Required of all Master of Arts candidates following Plan 2. Knowledge of educational statistics required. Tues. and Thurs., 9 to 10 P.M. (Also offered 1948 winter term.)

Education 295x—same as Education 295, but offered winter term. Fri., 5 to 6 P.M.

Education 297 *Reading in Education* (1)

The Staff

To assist those preparing for the comprehensive examination. No credit toward degree requirements. Wed., 5 to 6 P.M.

Education 297x—same as Education 297, but offered winter term. Wed., 5 to 6 P.M.

Education 299-300 *Thesis* (3-3)

The Staff

Required of all Master of Arts candidates following Plan 1. Time to be arranged. (Also offered 1948 summer term.)

## DEPARTMENT OF PHYSICAL EDUCATION FOR MEN

## FIRST GROUP

42x *Aquatic Sports, Swimming, and Lifeguarding* (2) Hanken

Fri., 1:30 to 3:00 P.M.

43-44 *Techniques of Physical Education Motor Activities for Freshmen* (2-2) The Staff

A critical survey of the fundamental skills, rules, organization, operations, and attitudes in these activities. Tues. and Thurs., 8 to 10 A.M.

45-46 *Techniques of Physical Education Motor Activities for Sophomores* (2-2) The Staff

Tues. and Thurs., 1:30 to 3:30 P.M.

47 *Introduction to Physical Education* (2) Myers

An orientation course presenting by demonstration some the problems of physical education: (roughing) football, basketball, volleyball, etc. The fundamental skill concept of field. Mon. and Wed., 5 to 6 P.M.



48 *Introduction to Recreation* (2)

Myers

A course presenting an elementary view of the various phases of the field, the role of recreation in modern living, current positions in community recreation work, methods of training, experience, and many types of leadership needed. Open to both men and women. Time to be arranged.

49 *Human Anatomy* (3)

Burtner

The structure of the human body. Basic course for physical education students. Open to both men and women. Prerequisite: Biology 1-2 or Zoology 1-2. Mon., Wed., and Fri., 9-11 A.M.

58x *First Aid and Care of Athletic Injuries* (2)

Myers

Prevention and emergency care of injuries of all types, with special reference to first aid, first aid, and common. A practical course. Prerequisite: Physical Education 49; Biology 1-2 or Zoology 1-2. Mon. and Wed., 1-3 P.M.

## SECOND GROUP

102 *Play in Education and Recreation* (3)

Atwell

The significance of play in human growth and development; play activities for elementary schools and recreation programs. Open to both men and women. (Not offered in 1948-49.)

103 *History and Principles of Physical Education*

Myers

(3)  
The interpretation of objectives of physical education activities under leadership, in terms of development, adjustment, and standards. Mon. and Wed., 1-3 P.M.

107 *Introduction to Methods in Physical Education*

Krupa

(2)  
Essential facts of education, psychology, and sociology, with special reference to the problem of method in physical education. Prerequisite: Biology 1-2 or Zoology 1-2; Psychology 1 and 2; Sociology 1 and 2. Mon. and Wed., 1-3 P.M.

109-10 *Leadership Organization in the Intramural Program* (2-2)

Krupa

Principles of administration, organization, and supervision of intramural activities in the elementary school program of the public school. Includes games, high school, and college. Prerequisite: Physical Education 47 and 107. Tue. and Thurs., 1-3 P.M.

113-14 *Directed Teaching in Physical Education*

The Staff

(2-2)  
Practical demonstration of teaching procedure in selected activities in the various positions in the elementary school curriculum. Prerequisite: a minimum of twelve credit hours in physical education. Physical Education 107. Time to be arranged.



- 115-16 *Methods in Major Sport Activities* (2-2) The Staff  
 Teaching procedures in adapting these sport activities to the several  
 handicap groups and to individual differences existing in the an-  
 cillary school organization. Prerequisite: possession of a fair  
 degree of skill in some various activities. Physical Education 107.  
 Mon. and Wed. 2:15 to 3:30.
- 117-18 *Methods in Minor Sport Activities* (2-2) The Staff  
 The scientific procedures in adapting these various activities to a sec-  
 ondary school physical education program. Prerequisite: demon-  
 stration of a fair degree of skill in these various activities. Physical Edu-  
 cation 107. Tues. and Thurs. 9:10 to 10:30.
- 121 *School and Community Health Programs* (3) Krupa  
 Health services, healthful environments, health instruction, sources of  
 material for general health knowledge. Open to both men and  
 women. Prerequisite: Biology 1-2 or Zoology 1-2. Mon. 7:15 to 8:30.
- 122 *Methods and Materials in Health Education* (3) Dennis  
 Organization and presentation of health materials for each age level.  
 Prerequisite: Biology 1-2 or Zoology 1-2. Open to both men and  
 women. (Not offered in 1948-49.)
- 123 *Psychological Analysis of Activities* (2) Krupa  
 A detailed course in the general personal factors participating in  
 physical education activities. Prerequisite: Psychology 1 and 2.  
 Tues. and Thurs. 11:10 to 12:30.
- 124 *Applied Anatomy and Physiology* (3) Myers  
 The structure and physiological basis of physical education activi-  
 ties. Prerequisite: Physical Education in Physiology 113. Biology  
 1-2 or Zoology 1-2. Tues. to be arranged.
- 125 *Kinesiology of Sports for the Physically Handicapped* (3) Myers  
 Motion, emphasis on the teaching of body mechanics which are  
 related to the prevention and remediation of physical handicaps. Pre-  
 requisite: Physical Education 40 and 102. Biology 1-2 or Zoology  
 1-2. Mon. Wed. and Fri. 10:10 to 11:30.
- 131 *Tests and Measurements in Physical Education* (3) Atwell  
 General course of tests in physical education, methods of test con-  
 struction, elementary statistics. Open to both men and women. (Not  
 offered in 1948-49.)
- 132 *Camp Leadership* (1) Atwell  
 Personality and administration of outdoor camps. Open to both men  
 and women.

- 133-34 *Observation and Practice Teaching* (3-3) Myers  
Required of every senior student in the junior or senior year. An opportunity to observe the schools in Washington, D. C., and vicinity. Prerequisite: Education 130, Physical Education 113-114. Fee, \$8.00 credit hour. Time to be arranged.
- 138 *Administration and Organization of Physical Education* (3) Myers  
The administration of a school program; a study of school organization, plans, athletic fields, and equipment. Prerequisite: Physical Education 47.
- 151-52 *Group Leadership Activities* (3-3)  
Full term group and their management; group work principles and methods; group dynamics and various leadership practices and techniques of group work. Written term application to permanent position. (Not offered in 1949-50)
- 153-54 *Group Leadership Activities* (3-3) Farnham  
Full term supervision and direction of physical recreation program. Written term application and direction of special recreation program, such as golf and tennis, dramatic group studies, and other activities. Term 7:30 to 9:00 A.M.
- 161 *Community Organization for Recreation* (3)  
Wed., 7:10 to 9:10 P.M.
- 162 *Administration and Supervision of Recreation* (3)  
Wed., 7:10 to 9:10 P.M.

## THIRD GROUP

- 211 *Problems in Physical Education* (3)  
The experimental relation. Organization, management, and control of physical education; problems arising out of current theory, practice, problems, and competition. Sat., 9:10 to 11:00 A.M.
- 220 *Problems in Health Education* (3)  
Health trends, public and program problems, use of community resources, providing program in the field. Sat., 2:10 to 4:10 P.M.
- 231 *Evaluation in Physical Education* (3)  
Planning the evaluation program; review of various methods of tests and standards; administration and interpretation of test results. (Offered in 1949-50)
- 240 *Physical Education for the Atypical* (3)  
Adaptations of instruction to meet the needs of students with physical disabilities; including bone and muscle diseases, heart, lung, cardiac arrhythmias, operations, and paralytic. (Offered in 1949-50)

PHYSICAL EDUCATION FOR WOMEN

FIRST GROUP

15-16 *Methods of Teaching Physical Education Activities* (2-2) The Staff

(1) Team Sports; teaching physical education, and equipment; (2) Recreation, Dance, gymnastics, and especially the swimming P.E. course, and social dance. Lecture and study lab.\* See a term. Wed. 1:30-4:00 P.M. Other hours to be arranged.

18 *Kinesiology* (3) Tate

A study of the anatomical mechanism of movement; analysis of the action of the muscles in physical education activities. Open to both men and women. Prerequisite: an approved course in anatomy.

48 *Introduction to Recreation* (2) Myers

A course presenting in elementary form the various phases of the study; the role of recreation in modern living; current practices in elementary recreation; basic standards of recreation experience; and theory, types of activities studied. Open to both men and women. Time to be arranged.

49 *Human Anatomy* (3) Butner

The structure of the human body. Basic course for physical education students. Open to both men and women. Prerequisite: Biology 1-2 or Zoology 1-2. Mon., Wed., and Fri. 9:15 A.M.

SECOND GROUP

102 *Play in Education and Recreation* (3) Atwell

The significance of play in human growth and development; play activities; the elementary schools and recreation programs. Open to both men and women. (Not offered in 1948-49.)

103 *History and Principles of Physical Education* (2) Atwell

Mon. and Wed. 11:15 A.M.

105-6 *Therapeutic and Remedial Physical Education and Physical Education* (3-3) Lawrence

Course that concerns of human body structure and other abnormal conditions; abnormal conditions; problems and in the development of physical education programs; clinical and remedial. Prerequisite: Biology 1-2 or Zoology 1-2. Mon. and Wed. 11:15 A.M.

111-12 *Methods of Teaching Physical Education Activities* (2-2) The Staff

(1) Team Sports; teaching physical education, equipment, and equipment; (2) Modern dance, especially and especially the teaching of Modern dance, some experience. Lecture and study lab.\* See a term. Wed. 1:30-4:00 P.M. Other hours to be arranged.

\*The study and study lab is arranged for convenience by one of the staff in the physical sciences.



## The Staff

**Activities (2-2)**  
Advanced material for the teaching of physical education with opportunity for specialization in sports or in dance. (a) Teaching and coaching in individual, dual, and team sports; (b) Advanced techniques, projects in teaching and production in the dance. Locker and shower, etc. \$2 a term. Wed., 1:00 to 4:00 P.M. Other hours to be arranged.

- 121 *School and Community Health Programs* (3) Krupa  
Health services, healthful environment, health instruction, sources of  
material for general health knowledge. Open to both men and women.  
Prerequisite: Biology 1-2 or Zoology 1-2. Mon., 7:15 P.M.

- 122 *Methods and Materials of Health Instruction* Dennis  
(3)  
Open to both men and women; 1-2 for men; 1-2 for women; 1-2 for both men and women. N. A. Revised in 1947-48.

- 130 *Clinical Work in Therapeutic and Remedial Physical Education* (3) Lawrence  
Practice in giving physical examinations, analysis of motor activities, and teaching of corrective exercises; observation of patients in gym, rest and out of rest; diagnosis with attention to functional and anatomic. Prerequisite: Physical Education 18, 42, and 145-6, Biology 142 or Zoology 142. 1 hour a week.

- 151 *Tests and Measurements in Physical Education* Atwood  
 (1935)  
 Critical survey of tests in physical education, rating of tests, and comparison of elementary statistics. Open to both men and women. (N)  
 (Hudson, 1935, p. 1)

- 182 *Game Legislation* (1)  
 Its purpose and administration, of hunters, game  
 and forests.

- 188-84 *Observation and Practice Teaching* (3-3)  
 Planned teaching with student conference in theory and  
 practice. Prerequisite: 184. Practice teaching for 60  
 days. Thesis to be arranged.

- 135 30 *Survey of Dance History and Dance Forms* Ballet  
(3-5)  
Primitive, Greek, medieval, pre-classic, romantic, and modern periods.  
Includes a section on the history of the dance and a section on the history of the dance.  
Includes a section on the history of the dance and a section on the history of the dance.



- 140 *Administration of Physical Education* (3) Atwell  
Organization and administration of physical education in elementary and secondary schools and in colleges. Prerequisite: Physical Education 103. Time to be arranged.
- 151-52 *Group Leadership Activities* (3-3)  
Fall term: groups and their significance, group work principles and methods, professional and volunteer leaders, organization and development of programs. Winter term: application to social-recreational activities. (Not offered in 1948-49.)
- 153-54 *Group Leadership Activities* (3-3) Foster  
Fall term: organization and direction of physical recreation programs. Winter term: organization and direction of special recreational activities, such as arts and crafts, literature, group singing, and nature walks. Tues., 7:45 to 9:35 P.M.
- 161 *Community Organization for Recreation* (3)  
Wed., 7:10 to 9:10 P.M.
- 162 *Administration and Supervision of Recreation* (3)  
Wed., 7:10 to 9:10 P.M.

## THIRD GROUP

- 211 *Problems in Physical Education* (3)  
For experienced teachers. Organization, supervision, and curriculum problems arising out of current issues, program planning, policies, cooperation. Sat., 9:10 to 11:00 A.M.
- 220 *Problems in Health Education* (3)  
Health trends, policies and program planning, use of community resources, program planning in the field. Sat., 9:10 to 11:00 A.M.
- 231 *Evaluation in Physical Education* (3)  
Planning the evaluation program, review of outcomes, analysis of tests and standards, administration and interpretation of tests, guidance. (Offered in 1947-51.)
- 240 *Physical Education for the Atypical* (3)  
Adaptation of activities to meet the special needs of students with physical disabilities resulting from such conditions as postural deviations, cardiac abnormalities, operations, and polio-myelitis. (Offered in 1949-51.)

## SCHEDULE OF EVENING AND SATURDAY CLASSES

## FALL TERM 1948-49

- Monday Evening 7:10 to 9:10  
Physical Education 141 School and Community Health Programs  
Education 217 Comparative Problems in Education  
Education 247 Vocational Education  
Education 279 Adult Education

**Tuesday Evening 7:35 to 9:35**

- Physical Education 153 Group Leadership Activities
- Education 213 History of Education
- Education 241 Secondary School Classroom Procedures

**Wednesday Evening 7:10 to 9:10**

- Physical Education 161 Community Organization for Recreation
- Education 249 Child Growth and Development
- Education 271 The American School System

**Thursday Evening 7:35 to 9:35**

- Education 215 Seminar: Great Teachers in American Education
- Education 239 Special Education
- Education 273 Administration of a School System

**Friday Evening 7:10 to 9:10**

- Education 221 Seminar: Early Childhood Education
- Psychology 231 Test Construction
- Education 252x Guidance in Secondary Schools
- Education 263 Employee Training

**Saturday Morning 9:10 to 11:10**

- Education 123 Reading Problems
- Education 141 Teaching Art
- Physical Education 211 Problems in Physical Education
- Education 227 Elementary Education
- Education 233 Audio-visual Education (lecture)
- Education 259 Secondary School Management

**Saturday Morning 11:10 to 1:00**

- Education 205 Curriculum
- Education 233 Audio-visual Education (laboratory)
- Education 255 Secondary Education
- Education 287 Clinical Study of Reading Problems

**WINTER TERM 1948-49****Monday Evening 7:10 to 9:10**

- Education 138 Teaching Social Studies
- Education 218 Contemporary Problems in Education
- Education 248 Vocational Education
- Education 260 Adult Education

**Tuesday Evening 7:35 to 9:35**

- Physical Education 154 Group Leadership Activities
- Education 136 Teaching English
- Education 214 History of Education
- Education 244 New Developments in Children's Literature
- Education 244 The Junior High School

**Wednesday Evening 7:10 to 9:10**

- Education 144 Teaching Science
- Physical Education 162 Administration and Supervision of Recreation
- Education 214 Child Growth and Development
- Education 271 The Teacher and School Supervision

Thursday Evening 7:35 to 9:35

- Education 240 Great Teachers in American Education
- Education 243 Administration of Elementary Education
- Education 274 Administration of a School System

Friday Evening 7:15 to 9:15

- Education 222 Seminar: Early Childhood Education
- Education 264 Employee Training

Saturday Morning 9:15 to 11:15

- Education 124 Reading Problems
- Education 142 Teaching Art
- Physical Education 220 Problems in Health Education
- Education 228 Elementary Education
- Education 245A Audio-visual Education (Methods)
- Education 260 Secondary School Management

Saturday Morning 11:15 to 1:00

- Education 206 Curriculum
- Education 243A Audio-visual Education (Laboratory)
- Education 256 Secondary Education
- Education 268 Critical Study of Reading Problems





THE GEORGE WASHINGTON UNIVERSITY  
WASHINGTON, D. C.

Report of the Comptroller

FOR THE YEAR ENDED

AUGUST 31, 1948

# EXHIBITS AND SCHEDULES

## EXHIBIT

### A Balance Sheet...

#### B Summary of Current Operating Income and Expense

#### B Summary of Current Funds—Unrestricted Surplus

#### C Summary of Current Funds Restricted—Unexpended

#### D Summary of Loan Funds Principal

#### E Summary of Endowment Funds Principal

#### F Summary of Plant Funds—Unexpended

#### G Summary of Net Investment in Plant

## SCHEDULE

### 1 Current Operating Income

### 2 Current Operating Expense

### 3 Miscellaneous Assets and Liabilities

### 4 Assets of Loan Funds

### 5 Assets of Endowment Funds—Controlled by the University

### 6 Assets of Endowment Funds—Controlled by Other Trustees

### 7 Assets of Plant Funds—Unexpended

### 8 Land and Buildings—Invested in Plant

### 8 Trust Notes Payable

### 9 Equipment—Invested in Plant

### 10 Current Funds Restricted—Unexpended—Organized Research

### Investment Income

### Miscellaneous Funds

### Agency Funds

### 11 Changes in Principal of Loan Funds

### 12 Changes in Principal of Endowment Funds

### 13 Changes in Principal of Plant Funds—Unexpended

## APPENDIX

### Cash

### Accounts Receivable

PAGE

12

14

15

16

17

18

19

20

22

29

40

41

42

49

50

52

58

59

60

62

66

67

68

69

74

76

79

# INDEX

Accounts Receivable	40	Land	52
Administration and General Expense	29	Libraries	35 59
Agency Funds	67	Leas Funds	
		Assets	41
Banks, Library	59	Changes in Principal	68
Buildings	52	Description	79
Current Funds Restricted—Unexpended	40	Maintenance and Operation of Plant	35
Deferred Income—Unrestricted	40	Notes Payable—Trust	58
Deputizing Bureau	28 38 40	Notes Payable—Unsecured	12
Endowment Funds		Ophthalmology—Post Graduate Course	27 37
Changes in Principal	69	Plant Funds—Unexpended	
Description	80	Changes in Principal	74
Income	62	Description	92
Investments	49	Income	65
Tuition Controlling	42	Investments	50
University Controlled	59	Prepaid Expense	40
Equipment		Prizes	66 76
Gifts	76	Research—Organized	60
Hospital		Residence Halls	28 38
Instruction		Society Halls	28 38
Investments	26 36	Student Clubs	28 38
Leas Funds	30	Student Fees	22
Tuition Controlled		Supplies	40
University Controlled	46	Current Funds—Unrestricted	12 15
Plant Funds	42	Net Investment in Plant	13 20
	50	Tuition and Other Fees	22

# INDEX OF LOAN, ENDOWMENT, AND PLANT FUNDS

Acker	80	Lerner	86
Algonquin Endowment	80	Law School Expansion	92
Alumni Fellowship	82	Lewis	85
Andrews	87	Library Books	92
Bartsch	87	Mariposa	68
Baylor	83	Master Library	91
Benson	88	McGraw-Hill	89
Burns	85	National Park Seminary	84
Campaign	80	Noyes Library	91
Carr	87	Ohio Section of George Washington Memorial Association	93
Carrall	82	Ordronaux	86
Carter, H. H.	87	Pairo	93
Carter, M. M.	84	Pearson	89
Chandler	92	Powell	89
Chapman	88	Reichelderfer	81
Class of 1929 Women's Unit No. 3	84	Reynolds	84
College Women's	92	Reserves for Protection of Investments	91
Colles	88	Consolidated Endowment	93
Congressional	83	Consolidated Plant	91
Copier	82	Scottish Rite	86
Cowan	85	Ruggles	86
Crawley	80	Sanders Endowment	81
Crossant	85	Sanders Fellowship	82
Cutter	85	School of Engineering Building	93
D. A. R. Endowment	91	School of Medicine Endowment	83
D. A. R. Loan	79	School of Medicine Building	93
Davis—Unrestricted Endowment	80		
Davis—Prize	85		
Davis—Scholarship	89		
Dewey	82		
Dorsey	89		



Elton	82	Scottish Rite	83
Essary	85	Schwab	93
Evens	85	Sharpe	83
Farnham	89	Shepard	89
Fried House	92	Spencer	80
Fitch	85	Stoughton-Elton	86
Founders of Columbian Women	88	Storrett	86
Fry	82	Stor	80
Gardner	83	Student Loan—University	79
General Reading	92	Student Union Fair, Slacks	93
General Hospital	84	Student Union Gifts	81
George Washington Law Association Loan	79	Suburban	79
George Washington Memorial	92	Swales Assoc. Book	91
Gerry	83	Swales Prize	86
Gezard	83	Swales Scholarship	90
Graduate	91	Syns	81
Haggett	80	Tree	84
Harvey	89	Trustees	81
Horton	88	Walker	90
Hose Economics Loan	79	Walsh	86
Hospital Equipment	74	War Loan	79
Hosier	84	Weddell	86
Howard Library	91	Weldon	88
Hubbard	85	Wethers	81
Kellogg Loan	79	Wheatington	90
Kendall	89	Women's Activities Building	93
Kennel	84	Women's Board Hospital	71
King—Fadwuent	80	Woodbury	84
Kear—Fellowship	82	Woodhill Fadwuent	81
Kearp	88	Woodhill Scholarship	90
Kuhlbank	84	Yulee	82

## LETTER OF TRANSMITTAL

TO THE PRESIDENT AND THE BOARD OF TRUSTEES  
THE GEORGE WASHINGTON UNIVERSITY  
WASHINGTON, D. C.

October 15, 1948

GENTLEMEN:

I am submitting herewith the Report of the Comptroller of The George Washington University for the fiscal year ended August 31, 1948. This report is a review of the budget operations for the year and is based on the budget approved by the Board of Trustees of the University.

The accounts of the University are kept and its financial reports set up as far as practicable in conformance with the recommendations of the National Committee on Standard Reports for Institutions of Higher Education. Under that plan the funds of the University are classified in various fund groups, and the accounts and financial statements are set up to segregate clearly the assets and liabilities of each of these groups as indicated in the balance sheet, Exhibit A.

R. G. Rankin & Co. have examined the accounts of the University for the past year, and their report is appended herewith.

A condensed summary of the principal facts in the report is presented below and on succeeding pages, followed by detailed Exhibits and Schedules.

Respectfully submitted,  
HENRY W. HERZOG  
Comptroller

## CURRENT FUNDS—UNRESTRICTED

These Funds represent unrestricted assets which are available for immediate use in the current operation of the University. Operating Income for the Year (Exhibit B and Schedule 1)

\$589,153.43  
4,512,894.08  
1,076,856.38

Excess of Current Operating Income over Current Operating Expense (Exhibit B)

The latter amount was added to Surplus—Current Funds Unrestricted. During the year \$1,148,312.50 was expended for real estate or capital improvements, and \$221,965.85 was applied to the reduction of Trust Notes Payable. Surplus at the end of the year amounted to \$18,450.66 (Exhibit B).

A Deferred Charge was set up (Exhibit A and Exhibit B) to offset the loss on the operation of the old and the new University Hospital, incurred as follows:

	Total	Old Hospital	Pre-Opening Expense	New Hospital
Hospital Income	\$42,137.26	274,662.11		567,475.15
Hospital Expense	1,090,454.66	288,318.41	43,566.01	738,570.24
Hospital Loss	(-248,317.40)	(-13,656.30)	(-43,566.01)	(-191,095.09)

The other Deferred Charge shown on Exhibit A, page 12, represents Hospital Equipment in the amount of \$100,000.94 purchased by the University in excess of the amount paid for by donations to the Hospital Equipment Fund. This is fully explained on page 9 of Receipts. The Hospital accounts are now maintained on an accrual basis and there was an accounts receivable balance of \$80,750.67 (Schedule 3). The rest of the University accounts on a modified accrual basis.

Scholarships were awarded to students from the following sources: Current Funds Unrestricted, \$18,172.00 (Schedule 2—Page 6); Endowment Income, \$4,348.73 (Schedule 10—Page 3).

## CURRENT FUNDS—RESTRICTED AND AGENCY

Gifts, grants, agency funds, and income from endowments comprise these funds which consist of currently expendable assets, limited as to disposition (Exhibit C and Schedule 10).

During the year restricted gifts for immediate use amounted to \$1,177.28 (page 76); other restricted gifts and grants for use as needed or specified amounted to \$407,528.80 (page 76). Restricted endowments earned \$78,500.33. Unexpended Restricted and Agency Funds totaled \$240,457.73 (Exhibit C).

## LOAN FUNDS

For the assistance of students seeking financial aid, loan funds have been established by the University and other organizations (Schedule 11). Loans are made at a low rate of interest and when repaid the interest is added to principal of the funds.

During the year, 113 loans were made to students. Gifts of \$45.00 were received. Loan Funds totaled \$40,040.75 (Exhibit 19).

## ENDOWMENT FUNDS

The principal of all endowment funds amounts to \$2,787,809.45, an increase of \$22,247.49 (Exhibit 11). These funds are represented by assets which, under the terms of wills, deeds of gift, or under the by laws of the University, must be held in perpetuity trust for income-producing purposes. The principal amount and purpose of every endowment fund of the University are recorded in Schedule 12. A description of the funds begins on page 80.

"Consolidated Endowment Funds" consist of eighty-seven endowments with a total value of \$1,387,012.24 (Schedule 5—Page 2). The assets of these funds are combined to eliminate the possibility of partial or total loss of any fund through the failure of a private investment, and to avoid temporary suspension of income if one property carrying unsecured paid cash balances in mortgage but added to investment, and given equality of treatment in all funds. Unless otherwise restricted by the donors, the assets of all new endowments are added to the assets of the Consolidated Endowment Funds.

Earnings of Consolidated Endowment Funds are recorded in one income account and at the end of the year are distributed to the participating funds for distribution. Each fund bears its share of the total of the entire group. The fund retains on the investment of these funds an interest of 4.2014% during the past year and, after deducting 10% as a reserve against losses (Schedule 12—Page 3), was distributed at the rate of 3.7813%.

The Scottish Rite Endowment Fund earned 3.5555% net income on its investments during the year just ended.

Net income of all endowment funds for the year was \$100,493.97 (Schedule 10—Page 3).

Pledges to the School of Medicine Endowment Fund on August 31, 1948, totaled \$135,564.00.



# PLANT FUNDS - UNEXPENDED

Cash and other assets not yet expended for development of the physical plant comprise this type of fund (Schedule 7). There was expended from this fund during the fiscal year \$718,740.52 for land, buildings, and equipment (Exhibit 1). Unexpended Plant Funds totaled \$277,247.60, a decrease of \$441,528.12.

The Hospital Equipment Fund was created in 1945 by gifts of various donors and has since been increased by gifts and other income for the purchase of equipment for the new Hospital. A report of activity through August 31, 1948, reveals the following:

Hospital Equipment purchased - 1945-46	12,056.84
" " " " 1946-47	113,929.25
" " " " 1947-48	830,006.55
<hr/>	<hr/>
Hospital Equipment Fund receipts	956,392.64
Hospital Equipment purchased in excess of receipts	837,482.70
<hr/>	<hr/>
	100,909.94

The latter amount is reported on Exhibit A as a Deferred Charge under Current Funds. Unrestricted in anticipation of further gifts to maintain the University for the students which has been advanced to meet this immediate need. Unpaid pledges to the Hospital Equipment Fund totaled \$48,170.51.

### PLANT FUNDS—INVESTED IN PLANT

The investment in the physical plant of the University includes land, buildings and equipment, analyzed as follows:

EXHIBITS A AND C; SCHEDULES 8 AND 9	BALANCE AUGUST 31, 1947	ADDITIONS	REDUCTIONS	BALANCE AUGUST 31, 1948
LAND AND BUILDINGS.....	5,887,087.71	1,192,812.50		7,079,900.21
EQUIPMENT.....	840,453.46	888,439.75		1,728,893.21
TRUST NOTES PAYABLE.....	536,625.00	36,000.00	221,953.85	350,671.15
NET INVESTMENT IN PLANT.....	6,190,916.17	2,207,209.10		8,458,122.27

AUDIT CERTIFICATE

To the President and the Board of Trustees  
The George Washington University  
WASHINGTON, D. C.

October 15, 1948

We have examined the balance sheet of THE GEORGE WASHINGTON UNIVERSITY as at August 31, 1948, and the statement of assets, liabilities, income and expense, current funds surplus, and other fund transactions for the fiscal year then ended, have reviewed the system of internal control and the accounting procedures of the University and, without making a detailed study of the transactions, have expressed an opinion as to the reasonableness of the University and other fund financial statements, by methods and to the extent set out and explained here. It was not practicable to obtain corroborative evidence from United States Government agencies, but we have applied other suitable procedures in connection with audit.

In carrying out the balance sheet and related statements of current operating income and expense, current funds surplus, and other fund transactions included in the accompanying Report of the Comptroller of the University, present below the proposed completion of The George Washington University as at August 31, 1948, and the partial completion for the fiscal year then ended, in each case, with necessary preliminary adjustments and minor corrections, we are in agreement with them in the preceding items, except that the method of reporting these and operating and financial items is not in accordance with the fiscal year under review, resulting in a net credit of approximately \$40,000 to current operating income.

R. G. RASKIN & Co.

THE GEORGE WASHINGTON UNIVERSITY

## BALANCE SHEET

August 31, 1948

[illegible]



# ENDOWMENT FUNDS

Cash (Schedule 5)	44,019.66			
Investments (Schedule 5)	2,403,449.54			
	<u>2,447,469.20</u>			
Controlled by Other Trustees (Schedule 6)	340,400.25	2,787,809.45	Principal of Funds (Exhibit F)	2,787,809.45
PLANT FUNDS				
UNEXPENDED				
Cash (Schedule 7)	49,450.78			
Investments (Schedule 7)	<u>187,500.82</u>	239,357.60	Principal of Funds (Exhibit F)	239,357.60
INVESTED IN PLANT				
Land and Buildings (Schedule 8)	7,070,000.21		Trust Notes Payable (Schedule 8)	450,671.15
Investments (Schedule 9)	<u>1,778,893.21</u>	8,808,793.42	Net Investment (Exhibit G)	<u>8,438,122.27</u>
				8,808,793.42
TOTAL		<u>13,535,748.25</u>	TOTAL	<u>13,535,748.25</u>

Exhibit A

# SUMMARY OF CURRENT OPERATING INCOME AND EXPENSE

For the Year Ended August 31, 1948

## Income (Schedule 1)

Edinburgh and General			
Student Fees	3,878,251.72		
Inventory Income	84,508.88		
Gifts and Grants	299,481.47		
Miscellaneous Sources	117,893.35		
Activities Relative to Instruction		4,380,135.42	
Auxiliary Enterprises		<u>891,409.54</u>	
		5,271,544.96	
		<u>312,648.47</u>	5,584,193.43

## Expense (Schedule 2)

Edinburgh and General			
Administration and General	590,887.33		
Instruction	1,609,273.35		
Organized Research	290,486.07		
Libraries	65,431.32		
Maintenance and Operation of Plant	363,037.12		
Allocations Expense	198,742.38		
Activities Relative to Instruction		3,114,859.57	
Auxiliary Enterprises		<u>1,139,646.76</u>	
Net Educational		4,254,506.33	
		<u>267,494.79</u>	
Less general overhead (refer to page 39)		43,618.90	
		4,565,620.02	
		<u>53,025.97</u>	4,512,594.05

EXCESS OF CURRENT OPERATING INCOME OVER CURRENT OPERATING EXPENSE

1,071,559.38

# SUMMARY OF CURRENT FUNDS—UNRESTRICTED SURPLUS

For the Year Ended August 31, 1948

BALANCE AUGUST 31, 1947.....	579,504.48
ADDITIONS	
Excess of Current Operating Income over Current Operating Expense	1,071,559.38
Deferred Charges—To be recovered in subsequent years from gifts and other income (Exhibit A)	248,317.40
Loss on disposition of the Hospital	100,000.94
Hospital Equipment	<u>1,420,786.72</u>
	2,000,291.20
DEDUCTIONS	
Transferred to Net Investment in Plant—Exhibit G	1,148,312.50
Land and Buildings	100,000.94
Equipment	<u>211.91</u>
Accounts Payable	
Reduction of Trust Notes Payable—Exhibit G	536,625.00
Trust Notes Payable August 31, 1947	36,000.00
Additions to Trust Notes Payable	<u>572,625.00</u>
Trust Notes Payable August 31, 1948 (Schedule 8)	350,671.15
	<u>221,953.85</u>
	1,471,388.20
BALANCE AUGUST 31, 1948—EXHIBIT A.....	528,903.00

EXHIBIT B

# SUMMARY OF CURRENT FUNDS RESTRICTED--UNEXPENDED For the Year Ended August 31, 1948

	TOTAL	ORGANIZED RESEARCH	INVESTMENT INCOME	MISCELLANEOUS	AGENCY
BALANCE AUGUST 31, 1947	137,832.21	53,209.57	71,231.10	12,526.75	864.79
ADDITIONS (Schedule 10)					
Gifts and grants	379,992.80	379,992.80			
Investment income	106,794.27		106,794.27		
Miscellaneous	16,966.00			16,966.00	
Deposits	55,249.61				55,249.61
	559,002.48	379,992.80	106,794.27	16,966.00	55,249.61
DEDUCTIONS (Schedule 10)					
Salaries	194,342.17	195,899.40			
Expenses	96,143.90	94,586.67			
Prizes	1,028.50		753.50	275.00	
Scholarships	5,740.75		4,348.75	1,412.00	
Loans	676.70			676.70	
Refunds of Key Deposits	86.75			86.75	
Transferred to the following Section and Schedules					
G-Not Investment in place	92.82		92.82		
I-Current Operating Income	87,983.47		85,605.35	2,378.12	
11-1945 Field Principal	5,189.07		189.07		
12-1946 Field Principal	5,740.75		5,740.75		
13-1947 Field Principal	3,508.14		3,508.14		
Extra Fund--Unexpended Principal	488.72			488.72	
Withdrawals	40,335.44				
	49,377.16	290,486.07	100,238.36	5,317.29	40,335.44
BALANCE AUGUST 31, 1948--EXHIBIT A	260,457.73	142,716.50	77,787.01	24,175.46	15,778.96



# SUMMARY OF LOAN FUNDS PRINCIPAL

For the Year Ended August 31, 1948

BALANCE AUGUST 31, 1947		41,003.36
ADDITIONS (Schedule II)		
Issuance of D.C.—D.A.R. Endowment Fund	189.07	
Gifts	48.00	
Interest on loans	560.69	794.76
		<u>41,798.12</u>
DEDUCTIONS (Schedule II)		
Loss on non-redeemable bonds	250.00	
Refunded to United States Government	1,507.87	1,757.87
		<u>40,040.25</u>
BALANCE AUGUST 31, 1948—EXHIBIT A		

EXHIBIT D

# SUMMARY OF ENDOWMENT FUNDS PRINCIPAL

For the Year Ended August 31, 1948

BALANCE AUGUST 31, 1947..... 2,705,621.96

## ADDITIONS (Schedule 12)

Gifts.....	9,748.00	
Investment income.....	11,304.20	
Gain on sale of investments.....	3,122.67	24,174.87

## DEDUCTIONS

Loss on sale of investments.....	889.57	
Transferred to Hospital Equipment Fund—Schedule 13.....	1,037.81	1,927.38
		<u>22,247.49</u>

BALANCE AUGUST 31, 1948—EXHIBIT A..... 2,787,879.45

# SUMMARY OF PLANT FUNDS- UNEXPENDED

For the Year Ended August 31, 1948

BALANCE August 31, 1947

791,785.72

ADDITIONS (Schedule 12)

(Cont.)

Transferred from Plant Fund - Schedule 12

Transferred from other Plant Funds - Unexpended

181,686.45  
3,808.14  
1,037.81  
2,634.32

189,186.92  
980,972.64

DEDUCTIONS (Schedule 13)

Transferred to other Plant Funds - Unexpended

Land and Buildings - Transferred to Plant Fund - Exhibit G

Equipment - Transferred to Plant - Exhibit G

2,254.52  
8,500.00  
780,290.32

741,715.04

BALANCE August 31, 1948 - EXHIBIT A

239,277.60

EXHIBIT F

# SUMMARY OF NET INVESTMENT IN PLANT For the Year Ended August, 31 1948

BALANCE AUGUST 31, 1947			6,190,916.17
<b>ASSETS</b>			
Plant and Equipment (Exhibit B)	221,953.85	185,953.85	
Less Trust Notes assumed during year *	<u>36,000.00</u>		
Land and Buildings (Schedule 8)			
Current Funds Unexpended (Exhibit B)	1,148,312.50		
Plant Funds—Unexpended (Exhibit F)	<u>8,300.00</u>		
* Trust Notes Payable (Schedule 8—Page 4—Item A)		1,163,812.50	
Equipment (Schedule 9)			
Current Funds Unexpended (Exhibit B)	100,989.94		
Current Funds Unexpended (Exhibit B)	211.91		
Current Funds—Unexpended (Exhibit C)	<u>92.82</u>		
Plant Funds—Unexpended (Exhibit F)	730,290.52		
Depreciations (Schedule 2—Page 9)	<u>56,964.56</u>	888,489.75	2,227,206.10
BALANCE AUGUST 31, 1948—EXHIBIT A			8,458,122.27



## SCHEDULES

**CURRENT OPERATING INCOME**  
For the Year Ended August 31, 1948

**EDUCATIONAL AND GENERAL**

STUDENT FEES		
Tuition and Laboratory	1,102,410.66	
Junior College	801,641.41	
Graduate Council	7,771.00	
School of Commerce	193,163.06	
Division of Scientific Studies	1,493.80	
Special Studies	251,283.16	
University Students	318,899.50	2,178,668.15
Law School	310,291.00	
School of Education	60,524.45	
School of Engineering	309,444.15	
Medical School	192,888.00	
Pharmacy	10,718.00	889,825.60
		3,068,533.75
Summer Session		
Junior College	208,602.00	
Graduate Council	70,554.75	
Division of Scientific Studies	108.00	
Division of Social Studies	50,000.50	
Division of University Students	118,373.25	
Law School	107,452.50	
School of Education	18,367.75	
School of Engineering	71,737.50	
School of Commerce	65,191.75	
School of Pharmacy	1,830.00	
Graduate Council	684.00	720,031.00

Unallocated (Fees Old) ..... 3,836.07 3,792,400.82

Miscellaneous Fees

Acquisition Fees	34,123.25
Appraisal Fees	1,734.00
Art Valuations	262.50
Binding Fees	559.00
Bookings	582.64
Graduation	37,368.00
Late Fees	1,540.00
Library Fees	668.70
Publication of Theses	700.00
Registration Fees	475.00
Service Fees	1,291.00
Special Examinations	321.00
Student Bar Association	4,924.00
Transcripts	1,177.41
	<hr/> 85,850.90
	3,878,251.72

# CURRENT OPERATING INCOME (Continued)

For the Year Ended August 31, 1948

## EDUCATIONAL AND GENERAL (Continued)

### INVESTMENT INCOME (Schedule 10)

Investment Funds

Unrestricted

Restricted

Plant Funds—Restricted

21,933.64  
59,783.08

81,716.72  
2,792.16

84,508.88

— 24 —

### GRANTS AND GIFTS

Unrestricted (page 76)

Restricted

Schedule 10

Original Research (partly used)

Section of Neurology Research in Surgery

Washington, Academy of Sciences

Lowell School Science Fund

Marble Foundation

Harvard-Dorsey Lecture Fund

Other (page 76)

290,486.07  
88.51  
429.00  
220.00  
833.52  
572.29  
5,725.00

1,177.28

298,304.19

299,481.47



MISCELLANEOUS SOURCES			
Dissertations Entered			2,099.94
Household Income			4,083.80
Miscellaneous Income			880.56
Reading Club			980.00
Room in University Property			27,042.20
Speech Club			2,055.50
Student Activities			
Address Miscellaneous			
Hatchery		3,385.63	
Law Review		10,277.28	
University Papers		2,448.42	
Student Council		4,146.00	
Book Exchange			
Cherry Tree 1947		674.15	
Cherry Tree 1948		8,569.11	
Frederick Class		8,769.41	
Free Club and Miscellaneous		479.04	
Handbook		589.77	
Surveyor		242.00	
Veterans Administration—Handling Fee		558.15	
		<u>9,649.53</u>	<u>29,806.86</u>
			<u>51,046.79</u>
			117,893.35

# CURRENT OPERATING INCOME (Continued)

For the Year Ended August 31, 1948

## EDUCATIONAL AND GENERAL (Continued)

### ACTIVITIES RELATING TO INSTRUCTION

#### THE GEORGE WASHINGTON UNIVERSITY HOSPITAL

In-Patient Services	147,797.24
Private Rooms	178,028.32
Semi-Private Rooms	94,089.12
Wards	23,911.01
Nursery	78,365.65
Anesthetics	25,139.10
Delivery Rooms	54,888.41
Operating Rooms	45,421.17
X-Ray Department	60,782.47
Laboratories	10,282.81
Pathology	49,865.93
Pharmacy	14,987.57
Sale of Medical and Surgical Supplies	11,088.00
Oxygen	949.00
Catheters, Band Plaster, Band	285.00
Band Plaster (Schedule 10—Page 4)	2,795.25
Electrocardiography	5,026.50
Physical Medicine	1,542.25
Electroencephalography	1,100.90
Emergency Room	804,302.50
	<hr/>
	1,443.00

#### Other Hospital Services

Baby Beds

#### Out-Patient Services

Out-Patient Department Clinic	4,614.17
Ophthalmology	5,625.25
Urology	1,392.00
Surgery	1,730.30
	<hr/>
	12,361.72

<b>Other Sources</b>		
<b>Cafeteria</b>		
Health Security Administration	24,913.80	
Temp. wage	10,189.83	
Gifts (page 76)	5,339.08	
Revised Special Notes	1,892.50	
Excess wages (see page 18, for page 10 - Page 2)	1,748.35	
Group Hospitalization Dividends	1,066.47	
Other Income	1,039.24	
	<u>44,586.32</u>	
	862,753.34	
<b>Less Deductions</b>		
Allowance on Health Security Administration	10,546.68	
Allowance on Group Hospitalization	6,394.93	
Other Allowances	6,890.62	
Loss on Uncollectible Accounts	<u>3,084.05</u>	
	20,916.28	842,137.26
<b>POST GRADUATE MEDICAL EDUCATION</b>		
Deferred from 1946-47		
Post Graduate Medical Education	44,770.60	
Post Graduate Course in Ophthalmology	9,494.42	
Tuition	49,479.07	
Gift (page 76)	<u>20.00</u>	
Deferred to 1948-49	103,764.09	49,137.09
	<u>54,627.00</u>	
<b>OPTOMETRIC TRAINING</b>		
Deferred from 1944-45	80.18	
Tuition	<u>55.01</u>	
Deferred to 1948-49	135.19	891,409.54

CURRENT OPERATING INCOME (Continued)  
For the Year Ended August 31, 1948

AUXILIARY ENTERPRISES

RESIDENCE HALLS		
Nurses Home—Everglades Apartments.....	22,410.66	
Staughton Hall	19,119.91	
Strong Hall	34,331.53	
2025 H Street, NW	4,100.11	70,962.21
SORORITY HALLS		
2121 G Street, NW	791.50	
2129 G Street, NW	5,015.00	
2131 G Street, NW	715.00	
802 21st Street, NW	1,912.50	8,434.00
OTHER		
Dining Hall—University	44,687.77	
Debate Club—Bureau	4,172.11	
Lower Administration	20,412.00	
Marion Washington Club	120.00	
Student Club	120,795.48	
Washington Counseling Center	34,020.90	
	224,212.26	312,608.47
TOTAL—EXHIBIT B.....		5,584,153.43



# CURRENT OPERATING EXPENSE

For the Year Ended August 31, 1948

	TOTAL	SALARIES	OTHER EXPENSE	EQUIPMENT EXPENSE
<b>EDUCATIONAL AND GENERAL</b>				
<b>ADMINISTRATION AND GENERAL</b>				
President's Office	82,714.57	51,423.35	31,291.22	
Vice President's Office	15,753.78	13,499.87	2,253.91	
Comptroller's Office	91,377.85	74,168.19	17,209.66	
Business Manager's Office	100,866.12	37,189.66	44,303.64	19,402.82
Admissions Office	49,539.66	45,103.82	4,436.84	
Registrar's Office	44,051.76	36,051.10	8,000.66	
Activities for Men	17,791.17	14,341.48	3,449.69	
Activities for Women	11,595.43	10,696.81	898.62	
Adviser to Students from Foreign Countries	1,300.89	461.67	839.22	
Alumni Office	66,322.73	16,258.56	50,064.17	
Public Relations Office	25,616.03	18,513.16	7,102.87	
Retirements	57,003.00	16,200.00	40,803.00	
University Chapels	529.55	330.00	199.55	
Veterans Administration	25,635.62	22,719.25	2,916.37	
Conference on Theoretical Physics	789.17		789.17	
<b>TOTAL—EXHIBIT B</b>	<b>590,887.33</b>	<b>356,926.42</b>	<b>214,558.09</b>	<b>19,402.82</b>

# CURRENT OPERATING EXPENSE (Continued)

For the Year Ended August 31, 1948

## EDUCATIONAL AND GENERAL (Continued)

INSTRUCTION	ADMINISTRATIVE EXPENSE	TOTAL	SALARIES	OTHER EXPENSE	EQUIPMENT EXPENSE
Teacher College	"	10,438.89	9,584.94	878.95	
Collegiate College	"	3,572.63	1,976.72	572.71	
Graduate College	"	3,067.64	3,750.00	1,317.64	
School of Commerce	"	3,881.22	3,300.78	580.44	
Division of Extension Students	"				
" " Junior High	"				
" " Secondary Studies	"				
" " Special Studies	"				
" " University Students	"				
		4,757.81	4,585.64	172.17	
		4,743.10	4,169.33	573.77	
		31,488.29	27,390.61	4,097.68	
		21,341.77	11,105.00	10,236.77	
Art		14,900.17	13,930.00	821.04	249.13
Library		13,709.21	12,080.00	493.69	135.52
Business Administration		41,142.50	41,034.00	148.50	
Chemistry		85,569.76	68,431.67	16,182.17	765.92
Classical Languages and Literature		3,815.97	3,800.00	15.97	

Exercises	43,529.92	43,129.92	200.00
Faculty	94,523.91	93,814.63	511.26
Externals	1,884.06	1,844.31	539.75
Foreign Affairs	1,170.00	1,170.00	
Foreign Service Review	8,103.31	6,826.50	1,276.81
Geography	9,177.40	8,390.00	353.52
Governmental Programs	20,770.79	20,740.00	30.79
Governmental and Economic Policy	1,350.00	1,350.00	
Government Council	1,641.60	300.00	1,341.60
History	42,072.01	41,816.25	255.76
International	1,980.00	1,980.00	
Mathematics	43,307.20	42,158.25	49.45
Philosophy	5,217.03	5,470.00	47.03
Physics	50,702.34	48,514.75	908.04
Political Science	27,340.69	27,339.92	100.77
Public Administration	2,340.00	2,340.00	
Psychology	36,840.59	35,639.92	606.05
Religion	3,617.05	3,600.00	17.05
Resource Management	81,418.04	81,263.04	155.00
Social Studies	4,474.31	4,230.00	244.31
Statistics	11,523.28	11,457.42	65.86
Spanish	35,233.50	33,117.50	1,643.24
Statistics	25,049.57	19,750.00	127.05
Zoology	30,249.22	25,116.86	4,618.21
	793,843.79	789,052.57	44,889.39
			9,903.83

563.88

1,479.55

574.62

492.56

5,172.50

472.15

# CURRENT OPERATING EXPENSE (Continued)

For the Year Ended August 31, 1948

	TOTAL	SALARIES	OTHER EXPENSE	EQUIPMENT EXPENSE
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## EDUCATIONAL AND GENERAL (Continued)

### INSTRUCTION (Continued)

Law School				
Administration	6,171.71	4,810.75	1,560.96	
Instruction	90,792.59	87,621.59	1,171.00	
	<u>97,164.30</u>	<u>94,432.34</u>	<u>2,731.96</u>	
School of Education				
Administration	4,316.07	3,698.84	617.23	251.28
Education	37,481.26	32,130.15	1,101.83	109.16
Home Economics	13,718.16	12,500.00	1,129.00	
	<u>55,515.49</u>	<u>48,328.99</u>	<u>2,848.06</u>	<u>360.44</u>
School of Engineering				
Administration	4,612.13	3,932.48	679.65	
Civil	37,882.10	32,130.40	1,224.53	4,527.17
Electrical	25,814.87	21,585.00	542.60	3,687.27
Mechanical	7,999.92	7,999.92		
	<u>76,309.02</u>	<u>62,280.00</u>	<u>3,883.65</u>	<u>416.18</u>
	<u>117,947.92</u>	<u>97,927.80</u>	<u>6,330.43</u>	<u>8,630.62</u>



School of Medicine

Administration	16,711.31	13,892.46	2,848.85	
Anatomy	19,133.45	17,713.03	1,210.05	212.37
Physiology, Hygiene, and Preventive Medicine	23,182.34	20,783.72	1,196.22	1,202.40
Bacteriology	22,467.86	21,199.84	1,103.65	164.37
Pharmacology and Syphilology	1,250.00	1,250.00		
Lebanon and Exchange Professors	1,110.00	1,110.00		
Medicine	48,977.66	47,969.55	1,008.11	
Neurology	5,641.35	5,296.66	344.69	
Gynecology and Gynecology	17,085.66	16,948.88	136.78	
Ophthalmology	1,800.59	1,650.00	240.59	
Otorhinolaryngology	1,940.85	1,875.00	65.85	
Pathology	23,507.41	22,296.51	937.68	273.22
Physiology	7,100.37	7,100.00	90.37	
Physiology	16,920.15	15,724.93	799.94	395.28
Physiology	21,683.34	19,964.83	1,272.16	448.35
Psychiatry	2,112.50	2,112.50		
Reverend General	15,495.13	3,929.50	11,465.63	
Surgery	19,731.73	19,504.05	227.68	
Urinary	1,800.00	1,800.00		
	<u>263,235.70</u>	<u>241,591.46</u>	<u>22,948.25</u>	<u>2,195.99</u>

SCHEDULE 2—PAGE 3

# CURRENT OPERATING EXPENSE (Continued)

For the Year Ended August 31, 1948

## EDUCATIONAL AND GENERAL (Continued)

### INSTRUCTION (Continued)

	TOTAL	SALARIES	OTHER EXPENSE	EQUIPMENT EXPENSE
School of Pharmacy				
Administration.....	1,950.11	1,475.00	475.11	
Instruction.....	20,302.95	18,619.88	1,683.07	433.88
	<u>22,253.06</u>	<u>20,094.88</u>	<u>2,158.18</u>	<u>433.88</u>
Summer Sessions				
Administration.....	6,675.57	1,719.92	4,955.65	212.85
Instruction.....	199,608.57	194,280.63	5,327.94	313.34
	<u>206,284.14</u>	<u>196,000.55</u>	<u>10,283.59</u>	<u>526.19</u>
Physical Education				
Men.....	25,582.21	15,814.92	9,767.29	
Women.....	29,582.81	24,307.56	5,275.25	
	<u>55,165.02</u>	<u>40,122.48</u>	<u>15,042.54</u>	

ORGANIZED RESEARCH (Schedule 10)—EXHIBIT B.....

LIBRARIES

Books				
Order Expense	13,548.09			13,548.09
	51,885.23			51,885.23
TOTAL—EXHIBIT B	65,433.32	45,072.79	195,899.40	94,586.67
		45,072.79		5,813.52
				5,813.52
				14,547.01

MAINTENANCE AND OPERATION OF PLANT—EXHIBIT B

	363,037.12	166,514.28		196,522.84
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MISCELLANEOUS EXPENSE

Admission Fees	2,559.00			2,559.00
Student Activities				
Board of Administration				
Bus Rental	19,517.57	14,655.79		4,861.78
Men's Athletics	6,340.74	800.00		5,540.74
Student Council Accounts	121,936.49	28,717.27		93,219.22
University Accounts	55,203.25	1,078.74		34,127.51
University Players	6,087.33	4,550.00		1,737.33
	7,098.00	885.00		6,213.00
TOTAL—EXHIBIT B	198,742.38	49,933.80		148,808.58

### CURRENT OPERATING EXPENSE (Continued)

For the Year Ended August 31, 1948

	Total	Salaries	Other Expense	Investment in Fixed G.
<b>EDUCATIONAL AND GENERAL (Continued)</b>				
<b>ACTIVITIES RELATING TO INSTRUCTION</b>				
<b>THE GEORGE WASHINGTON UNIVERSITY HOSPITAL</b>				
Administration	111,332.79	58,827.09	52,505.70	
Dietary	112,476.38	57,420.78	57,055.60	
Household and Personal	24,525.71	12,403.09	12,122.85	
Laundry	61,274.36	32,431.79	28,842.57	
Housekeeping	48,112.69	17,724.41	30,388.18	
Plant	11,380.77	7,371.39	1,957.38	
Maintenance of Building and Equipment	141,966.73	91,441.75	51,450.28	
Pharmaceutical Care - General	63,044.07	17,750.51	45,297.56	
Medical and Surgical Service	249,576.15	248,750.23	826.90	
Nursing Care	10,616.14	7,473.21	3,142.93	
Nutritional, Pathological and Library	30,521.99	5,472.59	25,049.40	
Pathology	4,248.62	4,033.23	215.39	
Central Supply	58,027.94	28,491.18	29,536.76	
<b>Prehospital Care - Special</b>				
Operating Rooms	37,426.79	20,318.59	17,108.20	
Delivery Rooms	22,221.99	15,724.03	6,497.96	
Laboratories	55,652.99	49,666.05	5,986.94	
X-Ray Department	32,922.38	22,410.13	10,512.25	
Electroencephalography Department	1,522.93	1,425.00	97.93	
Anesthesiology Department	54,019.92	48,216.76	5,803.16	
Physical Medicine	9,572.70	9,185.88	386.82	
Colostomy Department	1,243.31	1,891.61	648.30	



<b>Out Patient Department</b>			
<b>General Services</b>			
Department of Medicine	14,115.72	15,747.57	368.15
Department of Surgery	3,593.35	3,697.37	795.98
Department of Gynecology and Obstetrics	4,498.27	2,225.49	1,814.81
Department of Ophthalmology	2,250.06	2,080.17	169.89
Department of Larynx, Nose, and Throat	8,172.87	6,761.71	1,351.16
Department of Urology	1,594.06	1,542.72	21.34
Department of Pediatrics	1,268.43	209.63	358.80
Department of Cutaneous	922.84	934.68	68.16
Department of Social Service	945.51	955.29	12.72
Nursing Care	2,900.05	2,900.05	
Housekeeping	6,273.73	6,273.73	
Language Department	1,907.11	1,907.11	
	<u>43,733.20</u>	<u>43,764.16</u>	<u>4,664.01</u>
<b>Auxiliary Expenses</b>			
Cafeteria	55,809.60	21,108.10	34,701.50
	<u>1,046,884.65</u>	<u>721,897.14</u>	<u>324,026.51</u>
<b>Hospital Preceding Expense</b>			
	43,566.01	13,443.90	30,122.11
	<u>1,090,450.66</u>	<u>735,341.04</u>	<u>313,148.62</u>
<b>Post Graduate Medical Education</b>			
	49,137.09	20,039.51	29,097.58
<b>ORIGINATOR TRAINING</b>			
	<u>55.01</u>		<u>55.01</u>
<b>TOTAL EXHIBIT B</b>	<u>1,139,646.76</u>	<u>755,345.55</u>	<u>384,301.21</u>

# CURRENT OPERATING EXPENSE (Continued)

For the Year Ended August 31, 1948

## AUXILIARY ENTERPRISES

### RESIDENCE HALLS

Nurses Home (collections handled by an agent)

Stoughton Hall

Strong Hall

2025 H Street, NW

	TOTAL	SALARIES	OTHER EXPENSE	EQUIPMENT EXPENSE
	14,375.90	8,423.60	5,952.30	
	41,615.65	14,977.82	27,549.79	
	2,288.49	537.50	1,750.99	
	58,280.04	23,939.92	34,953.08	

### SORORITY HALLS

2121 G Street, NW

2129 G Street, NW

2131 G Street, NW

802 21st Street, NW

	207.62	100.00	107.42	
	2,774.08	300.00	2,474.08	
	178.00	100.00	78.00	
	1,820.46	200.00	1,620.46	
	4,980.16	700.00	4,280.16	

### OTHER

Dining Hall—University

Duplicating Bureau

Linier Auditorium

Student Club

Washington Conference Center

	49,600.84	17,812.72	31,788.12	
	2,393.95	410.06	1,983.89	
	18,530.73	11,347.39	7,183.34	
	110,769.63	20,083.92	90,525.71	160.43
	22,989.44	21,791.48	1,246.11	301.88
	204,234.59	71,045.57	132,727.24	461.71

# NON EDUCATIONAL

FINANCIAL CAMPAIGN	6,131.30	4,164.38	1,966.92
INTEREST ON NOTES PAYABLE	19,315.60		19,315.60
SCHOLARSHIPS	18,172.00		18,172.00
TOTAL EXHIBIT B	<u>43,618.90</u>	<u>4,164.38</u>	<u>39,454.52</u>

TOTAL EXPENSE EXHIBIT B	4,565,620.02	3,146,480.22	1,362,175.24	<u>56,964.56</u>
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Less general overhead expense charged to various departments and included in "Other Expense" above

53,025.97

TOTAL EXPENSE, ADJUSTED - EXHIBIT B	<u>4,512,594.05</u>
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# MISCELLANEOUS ASSETS AND LIABILITIES

August 31, 1948

## ACCOUNTS RECEIVABLE

Veterans Administration—Veterans' Tuition, Books, Supplies	507,632.56
" " Washington Counseling Center	4,742.00
Regular Students' Tuition and Other Fees	7,386.82
Dormitory Rates (unpaid)	(-93.57)
Hospital	86,687.67
Leaves to Veterans	870.90
United States Government—Research	130,148.20
Warwick College—Research	1,115.61
Federal Public Housing Authority—Furniture	882.47
Harvard University	167.02
	<u>719,520.78</u>

## PREPAID EXPENSE

University—Supplies—Student Union	41,040.00
" " Student Club	16,943.00
" " Dining Room	568.00
" " Duplicating Bureau	108.00
Hospital—Supplies—Medical and Surgical	75,120.64
" " Pharmacy	18,082.22
" " Library and Building	6,700.75
" " Maintenance and Housekeeping	2,040.82
" " Groceries	1,726.11
" " Fuel and Carved Foods	4,776.05
" " Meat	506.05
" " Food Vegetables and Fruits	69.35
Insurance—Hospital	104,125.79
Medical	162,784.79
Medical Supplies	8,483.16
Medical Services	2,576.70
	<u>7,612.97</u>
	<u>181,457.72</u>

## DEFERRED INCOME AND DEPOSITS

Post Graduate Medical Education	54,627.00
Student Fees	11,807.50
Orthopedic Training	344.99
Student Council	1,408.24
Auditorium	1083.00
Culinary Department	71,857.73



# ASSETS OF LOAN FUNDS

August 31, 1948

FUNDS	TOTAL	CASH	LOANS RECEIVABLE	
D.C. - D.A.B. Fund	2,000.76	2,175.42	403.44	
George Washington Univ. Veterans Loan Fund	768.00	508.00	200.00	
Home Investment Loan Fund	352.35	352.35		
Kennedy Medical School Loan Fund	15,920.83	8,988.93	9,931.90	
Student Loan Fund	8,007.83	7,100.35	907.50	
Suburban Medical School Loan Fund	1,200.00	700.00	500.00	
War Loan Fund	11,046.96		11,036.96	
TOTAL—EXHIBIT A	40,256.73	19,942.95	23,097.80	

SCHEDULE 4

# ASSETS OF ENDOWMENT FUNDS—CONTROLLED BY THE UNIVERSITY

August 31, 1948

## CONSOLIDATED ENDOWMENT FUNDS

BONDS		DESCRIPTION	Ct	DUE	VALUE	
					PAR	MARKET
American Telephone and Telegraph Co.	Debiture		23.4	1961	12,000	13,198.00
Amchem, Teich and Saito Fe Ry, Co.	General Mortgage		4	1995	2,000	1,970.00
Baltimore and Ohio R. R. Co., Pittsburgh						
Lake Erie and W. Va. System	Refunding Mortgage, Series A	4	1980	5,000	4,000.00	5,042.00
Capital Transit Co.	First and Refunding Mortgage A	4	1944	8,000	7,680.00	8,000.00
Great Northern Railway Co.	General Mortgage B	4	1976	25,000	29,250.00	25,209.00
Detroit and Alpena Railway Co.	Debiture	5	1951	12,000	12,960.00	12,368.00
New York Central Railroad Co.	Refunding and Improvement A	41.2	2013	10,000	20,700.00	24,750.00
Pennsylvania Railroad Co.	General Mortgage E	41.4	1984	25,000	24,750.00	26,647.00
Pittsburgh and West Virginia	Consolidated Mortgage	41.2	1940	1,000	1,140.00	1,024.00
United States of America	Treasury Bonds	21.4	1959-62	50,000	50,000.00	50,000.00
United States of America	Treasury Bonds	21.2	1949-53	100	101.00	100.00
United States of America	Treasury Bonds	21.2	1949-53	10,000	10,000.00	10,000.00
United States of America	Treasury Bonds	21.2	1949-53	25,000	21,500.00	23,000.00
United States of America	Savings Bonds, Series G	21.2	10-1-54	44,744.00	44,744.00	47,000.00
United States of America	Savings Bonds, Series G	21.2	11-1-54	17,000	16,184.00	17,000.00
United States of America	Savings Bonds, Series G	21.2	1-1-55	36,500	34,634.50	36,500.00
United States of America	Savings Bonds, Series G	21.2	4-1-55	41,100	38,921.70	40,500.00
United States of America	Savings Bonds, Series G	21.2	9-1-55	7,500	7,102.50	7,500.00
United States of America	Savings Bonds, Series G	21.2	10-1-55	9,000	8,523.00	9,000.00
United States of America	Savings Bonds, Series G	21.2	2-1-57	10,000	9,500.00	10,000.00
United States of America	Savings Bonds, Series G	21.2	7-1-58	35,000	33,670.00	35,000.00
United States of America	Savings Bonds, Series G	21.2	8-1-56	200	155.20	148.00
United States of America	Savings Bonds, Series F	2.53	11-1-58	200	149.00	148.00
United States of America	Savings Bonds, Series F	2.53	11-1-58	6,000	7,320.00	6,469.00
Washington Gas Light Co.	General Mortgage	5	1960	2,000	149.00	27,640.00
West Shore Railroad Co.	General Mortgage	4	1961	2,000	149.00	27,640.00
						433,529.00

STOCKS—PREFERRED

ALL CHLADERS MANUFACTURING CO.	Convertible	514	8,700.00	10,000.00
AMERICAN PAPER AND LIGHT CO.	50 Convertible	100	18,130.00	17,637.09
AMERICAN SUGAR AND REFINING CO.	Convertible	150	17,850.00	17,426.70
AMERICAN VULCANIZING CO.	Convertible	100	11,900.00	10,750.00
ANNEALING PLANT, INC.	Convertible	100	10,200.00	10,000.00
ARIZONA, TULSA AND SANTA FE RY. CO.	New Convertible	70	6,000.00	5,927.50
CARRIAGE AND FURNITURE R. R. CO.	Convertible	100	7,000.00	8,500.00
CENTRAL CEMENT CO.	Convertible	240	22,120.00	24,000.00
CLARK, HENRY AND S. W. P. CO.	Convertible	163	9,474.00	10,432.00
CLARK, HENRY AND S. W. P. CO.	447 Convertible Series A	100	20,200.00	19,000.00
CLARK, HENRY AND S. W. P. CO.	813 Convertible	200	19,200.00	20,000.00
CLARK, HENRY AND S. W. P. CO.	814 Convertible	100	12,100.00	12,535.25
CLARK, HENRY AND S. W. P. CO.	8104 Convertible	50	4,000.00	5,150.00
CLARK, HENRY AND S. W. P. CO.	Convertible	100	11,800.00	11,700.00
CLARK, HENRY AND S. W. P. CO.	Convertible	50	4,400.00	5,130.00
CLARK, HENRY AND S. W. P. CO.	Convertible	200	19,200.00	20,300.00
CLARK, HENRY AND S. W. P. CO.	Convertible	100	19,400.00	18,704.43
CLARK, HENRY AND S. W. P. CO.	Convertible	200	17,400.00	20,700.00
CLARK, HENRY AND S. W. P. CO.	Convertible	200	19,000.00	20,670.70
CLARK, HENRY AND S. W. P. CO.	Convertible	100	8,400.00	9,375.34
CLARK, HENRY AND S. W. P. CO.	Convertible	105	9,340.00	10,477.50
CLARK, HENRY AND S. W. P. CO.	Convertible	200	20,000.00	21,520.34
CLARK, HENRY AND S. W. P. CO.	Convertible	200	17,000.00	20,000.00
CLARK, HENRY AND S. W. P. CO.	Convertible	100	9,300.00	10,270.00
CLARK, HENRY AND S. W. P. CO.	Convertible	304	18,072.00	15,732.00
CLARK, HENRY AND S. W. P. CO.	Convertible	400	13,200.00	13,584.11
CLARK, HENRY AND S. W. P. CO.	Convertible	100	8,800.00	10,017.84
CLARK, HENRY AND S. W. P. CO.	Convertible	800	20,800.00	21,000.00
CLARK, HENRY AND S. W. P. CO.	Convertible	200	18,400.00	20,500.00
CLARK, HENRY AND S. W. P. CO.	Convertible	390,776	422,140.80	

SCHEDULE 5—PAGE 1

# ASSETS OF ENDOWMENT FUNDS—CONTROLLED BY THE UNIVERSITY (Continued)

August 31, 1948

## CONSOLIDATED ENDOWMENT FUNDS (Continued)

STOCKS—COMMON	VALUE		
	SHARES	MARKET	BOOK
Alco-Chrysler Manufacturing Co.	500	17,000.00	21,547.00
American Gas and Electric Co.	300	11,400.00	12,000.00
American Oil Field Service Co.	50	410.00	549.00
Atlantic City Freeport Co.	27	459.00	2,833.00
Celotex Corp.	200	11,890.00	12,300.00
Chrysler Corporation	640	16,640.00	18,100.00
Continental Petroleum Co.	31	1,087.00	2,175.38
Continental Gas Co.	270	20,100.00	16,945.31
Continental Illinois National Bank and Trust Co.	210	12,410.00	9,444.00
Continental Oil Co. of Delaware	100	3,000.00	3,400.00
General Electric Co.	500	31,500.00	26,521.72
General Motors Corporation	240	9,000.00	8,411.17
Goodman, Inc. and Hudson Co.	200	6,200.00	12,015.28
International Nickel Co. of Canada, Ltd.	500	17,400.00	18,227.50
Kennecott Copper Corporation	6	112.00	188.00
Merckenthaler Manufacturing Co.	30	1,521.00	3,117.04
National City Bank of New York	200	7,000.00	8,646.84
New York Air Brake Co.	200	11,000.00	7,877.15
Phelps Dodge Corporation	100	8,800.00	5,112.50
R. I. Reynolds Tobacco Co., New York B.	13	4,000.00	4,871.00
Riggs National Bank	67	7,708.00	5,015.50
Security Storage Co.	1,500	28,500.00	23,187.16
Socony-Vacuum Co., Inc.	50	3,000.00	1,525.00
Southern Pacific Co., Inc.	300	18,900.00	11,796.85
Standard Oil Co. of California		246,592.00	239,556.66



TRUST NOTES RECEIVABLE

Brentley, Alfred T. and Catherine. Secured by lot 21, square 2886 Belmont Property, Inc.—Secured by lot 4, square 18	31 2	7-9-49	1,500.00	1,500.00
Gilley, David E.—Secured by lot 6, square 5053	4	11-12-52	6,500.00	6,500.00
Hindcamp, David M.—Secured by lot 35-34, square 3187	31 2	4-9-51	6,000.00	6,000.00
Murphy, Louise E.—Secured by part of lot 27, block 11, Ben Mc. Ardisson, Va.	4	2-18-49	1,000.00	1,000.00
Shaw, Charles A.—Secured by lot 77, square 162	2	7-1-49	1,250.00	1,250.00
Sidranski, John M.—Secured by lot 82, square 33	4	10-31-49	8,000.00	8,000.00
Wilmare, Ben.—Secured by lot 6, square 16	4	7-15-51	2,000.00	2,000.00
	4	12-4-51	3,500.00	3,500.00
			<u>29,750.00</u>	<u>29,750.00</u>

REAL ESTATE

String Hall—230 21st Street, NW	231,451.94	231,451.94
Cash	<u>31,483.84</u>	<u>31,483.84</u>
	1,847,808.68	

TOTAL ..... 1,887,912.24

ASSETS OF ENDOWMENT FUNDS—CONTROLLED BY THE UNIVERSITY (Continued)

August 31, 1948

SCOTTISH RITE FUND

Bonds	Description	%	Due	Value		
				PAR	MARKET	BOOK
American Telephone and Telegraph Co.	Debiture	23 1/2	1980	25,000	23,250.00	25,000.00
Central Trust Co.	First and Refunding Mortgage A	4	1964	10,000	9,600.00	10,000.00
Central Trust Co.	First and Refunding Mortgage	3 1/2	1966	20,000	21,400.00	20,000.00
Consolidated Union Trust Co.	First Mortgage Subordinated Fund C	4 1/2	1977	24,000	24,720.00	23,400.00
First National Bank	First Mortgage	2	1968	12,000	14,520.00	12,000.00
First National Bank	Debiture	5	1941	3,000	3,240.00	3,000.00
First National Bank	First Mortgage A	5	1952	15,000	15,450.00	15,124.00
First National Bank	First Mortgage A	4	1957	25,000	26,000.00	25,000.00
First National Bank	First Mortgage A	3 1/2	1951	6,000	6,000.00	6,000.00
First National Bank	First Mortgage A	2	1950-52	103,000	104,000.00	103,000.00
First National Bank	First Mortgage A	2	1951-53	20,000	20,000.00	20,000.00
First National Bank	First Mortgage A	2 1/2	1953-52	25,000	25,000.00	25,000.00
First National Bank	First Mortgage A	2 1/2	1957-72	25,000	25,000.00	25,000.00
First National Bank	First Mortgage A	2 1/2	10-1-53	50,000	47,000.00	50,000.00
First National Bank	First Mortgage A	2 1/2	10-1-54	100,000	95,200.00	100,000.00
First National Bank	First Mortgage A	2 1/2	1-1-53	100,000	95,200.00	100,000.00
First National Bank	First Mortgage A	2 1/2	2-1-56	1,000	947.00	1,000.00
First National Bank	First Mortgage A	2	1960	4,000	4,880.00	4,505.00
First National Bank	First Mortgage A	4	23-1	14,000	8,900.00	12,355.00
First National Bank	First Mortgage A				571,497.00	584,173.00

STOCKS - PREFERRED	PERCENTAGE	SHARES	11,900.00	10,750.00
American Viscose Corporation	5	100	18,200.00	20,600.00
Dresser Industries	3 3/4	200	9,700.00	9,895.00
Federal Department Stores, Inc.	4 1/4	100	3,840.00	4,000.00
General Motors Corporation		40	4,050.00	5,120.50
General Steel Corporation		50	10,800.00	10,760.34
Goodyear Tire and Rubber Co.		100	15,200.00	15,450.00
Heile Co.	3 3/4	150	8,200.00	9,124.08
International Harvester Co.	7	50	12,800.00	20,000.00
Lee Trueman, R. G., Inc.		200	8,000.00	9,800.25
McKesson and Robbins, Inc.		100	16,300.00	20,511.65
Northrup Aircraft Corp.		100	13,400.00	17,000.78
Philadelphia Electric Co.	6	100	9,300.00	10,270.00
Pharmaceuticals, Inc.	3 1/8	100	12,548.00	14,007.00
Public Service Co., Ltd., Inc.	4	138	17,900.00	15,321.00
Power Corp. of America	3 1/4	300	17,000.00	20,018.17
R. J. Reynolds Tobacco Co.	3 1/4	200	182,348.00	214,913.57
<b>STOCKS - COMMON</b>				
Continental Milling Machine Co.		500	11,500.00	18,600.10
Crescent Steel Co.		800	20,800.00	21,990.00
Continental Oil Co. of Delaware		500	30,300.00	15,711.25
Continental Electric Co.		400	15,600.00	17,210.00
Continental Tire and Rubber Co.		200	9,000.00	9,640.34
Continental National Co. of Canada, Ltd.		300	6,300.00	13,011.50
Continental National Bank		750	41,250.00	32,577.25
Continental Ward and Co.		125	58,750.00	32,628.00
Continental Oil Co. of California		100	6,300.00	2,600.00
Standard Oil Co. of New Jersey		512 1/2	89,000.00	37,838.44
Standard Oil Co. of New York		300	15,900.00	20,940.19
Underwood Corporation		900	36,900.00	25,122.50
United Carbide and Carbon Corporation			274,800.00	247,914.57
CASH			12,335.82	12,335.82
			1,041,780.82	
TOTALS (Scottish Rite Fund)		1,000,000.00		
Reserve for Protection of Scottish Rite Fund Investments		59,556.96		1,059,556.96

# ASSETS OF ENDOWMENT FUNDS--CONTROLLED BY THE UNIVERSITY (Continued)

August 31, 1948

## SUMMARY OF ASSETS OF ENDOWMENT FUNDS--CONTROLLED BY THE UNIVERSITY

INVESTMENTS								
Funds	Total Assets	Cash	Total	Bonds	Stocks		Trust Notes	Real Estate
					Preferred	Common		
Consolidated, ...	1,387,912.24	31,483.84	1,356,428.40	433,529.00	422,140.80	239,559.66	29,750.00	231,451.94
Seafish Rice	1,769,556.00	12,535.82	1,647,021.18	584,173.00	214,923.57	117,924.57		
Total-- Exhibit A	2,447,468.20	44,019.66	2,403,448.54	1,017,702.00	637,064.37	457,484.23	29,750.00	231,451.94



# ASSETS OF ENDOWMENT FUNDS—CONTROLLED BY OTHER TRUSTEES

August 31, 1948

Funds	Trustees	Book Value
Andrew Scholarship Fund	American Security and Trust Co.	\$5,121.23
Fry Preceptorship Fund	National Savings and Trust Co.	101,356.68
Harris Scholarship Fund	Western Trust and Trust Co.	5,011.27
Snyder Fellowship Fund	National Savings and Trust Co.	213,000.12
Shapiro Medical School Fund	National Savings and Trust Co.	8,162.75
Speerer Scholarship Fund	National Trust Co., Chicago	7,484.20
Total—Exhibit A		<u>\$40,439.25</u>

Schedule 6

# ASSETS OF PLANT FUNDS—UNEXPENDED

August 31, 1948

## PAIRO FUND

Bonds	Description	C	DUE	PAR	VALUE	
					MARKET	BOOK
Morgan and Ives Real Estate Co.	First and Refunding Mortgage	31 1/2	2000	6,000	3,480.00	4,605.00
Southwestern P. & O. Co. (Long Term)	First Mortgage A	41 1/2	1977	5,000	5,100.00	5,173.00
United States of America	Treasury Bonds	21 1/2	1944-49	500	500.00	504.00
United States of America	Savings Bonds, Series G	21 1/2	9-1-53	700	670.60	700.00
United States of America	Savings Bonds, Series G	21 1/2	2-1-54	500	479.00	500.00
United States of America	Savings Bonds, Series G	21 1/2	11-1-56	300	284.40	300.00
					10,514.00	11,782.00
STOCKS—COMMON						
American Security and Trust Co.				SHARES		
Capital Trust Co.				20	5,400.00	8,220.00
Marquette Investment Co.				200	3,900.00	14,400.00
National Bank of Washington				150	7,800.00	15,806.25
National City Bank of New York				100	16,000.00	25,500.00
Pennard Corporation				61	2,775.00	2,928.00
Riggs National Bank				100	600.00	1,300.00
				52	16,125.00	19,695.00
					54,600.00	87,849.25
Trust Notes Receivable						
Hempstead, Wm. C. and Lillian E.—Secured by tract in Germantown, Md.		C	DUE			
Due 120 per cent with interest		6	Monthly		249.38	249.38
Washington, H. D.—Secured by lot 159, square 1026		5 1/4	10-7-37		893.06	893.06
					1,142.44	1,142.44
					27,358.94	27,358.94
					93,714.38	128,132.63

CASH

TOTAL

# CONSOLIDATED PLANT FUNDS

BONDS	United States of America	Savings Bonds, Series C	C	Due	Par
United States of America	212	11-1-54	3,000		2,850.00
United States of America	212	10-1-53	1,000		947.00
United States of America	212	10-1-57	1,700		1,623.20
United States of America	212	1-1-50	20,000		18,800.00
					<u>24,220.20</u>
					24,000.00

## STOCKS—COMMON

Commonwealth and Southern Corporation  
 General and Co.  
 Chemical Co.

STOCKS	Shares	25	75	28	13
Commonwealth and Southern Corporation	8,170	59,280.00	61,970.00		
General and Co.	100	2,900.00	2,371.00		
Chemical Co.		61,255.00	64,313.13		
		22,091.84	22,091.84		
		107,973.04	111,124.97		

Cash

Totals

## SUMMARY OF ASSETS OF PLANT FUNDS—INEXPENDED

FUNDS	Total Assets	Cash	INVESTMENTS			
			Total	Bonds	Common Stocks	Trust Notes
Consolidated Plant Fund	111,124.97	22,091.84	89,033.13	24,500.00	64,533.13	
Plant Fund	118,132.03	27,318.94	100,773.09	11,782.00	87,991.09	1,142.44
TOTALS—FUND A	229,257.00	49,410.78	189,806.82	36,282.00	152,524.82	1,142.44

# LAND AND BUILDINGS—INVESTED IN PLANT

For the Year Ended August 31, 1948

Building or Location	Serial Number	Lot	Square Feet	Year Acquired or Expended	Balance August 31, 1947	Additions	Balance August 31, 1948
Biological Sciences Building	A	45	102	1914-35	151,129.97		151,129.97
Chapin Hall		3	119	1948		66,000.00	66,000.00
Corson Hall		43	102	1919-24	327,481.92		327,481.92
		2-13-15-17-19					
		24-28-29					
		300-301-302					
		303-304-321					
		323-324-325-330					
		332-333-334-339					
		338-339-342					
		325-326					
		47-49-501					
		1-396-397					
		A, B, 17-46-52					
		320-321-322					
		329-330-331					
		433					
		315-316-317					
		306-307-311					
		27-28-316-317					
		330-331					
		43					
		3					
		{ 24-25-28-29-30					
		{ 31-32-300-301					
Field House Site							
Crematorium			56	1926-48	251,633.03	8,500.00	260,133.03
Hall of Government			102	1924-25	58,331.44		58,331.44
Hospital (depository)			79	1918-38	259,031.63		259,031.63
			54	1945	100,000.00	250,000.00	350,000.00
Lower Administration			29	1929-41	823,982.91		823,982.91
Lower Hall			102	1912-39	372,250.19		372,250.19
Microscopic Laboratory			102	1921-30	57,543.67		57,543.67
Nurse Home			55	1947	401,500.00		401,500.00
Pharmaceutical Laboratory			79	1943	95,482.17		95,482.17
Physiology Laboratory			79	1947	26,075.12		26,075.12
Shop, Stockroom and Warehouse			250	1882-1932	995,706.34		995,706.34
Shop, Stockroom			101	1943	26,761.24		26,761.24
Social Sciences Building			102	1922-36	269,279.60		269,279.60



County, H <sub>1</sub>	2129 G Street, NW	805	79	1936	36,980.72	36,980.72
County, H <sub>2</sub>	2131 G Street, NW	8	79	1935	25,500.00	25,500.00
County, H <sub>3</sub>	2131 G Street, NW	35	77	1938	11,000.00	11,000.00
County, H <sub>4</sub>	2131 G Street, NW	814-835	79	1941	51,600.00	51,600.00
County, H <sub>5</sub>	2131 G Street, NW	44	102	1920-25	279,325.93	279,325.93
County, H <sub>6</sub>	2131 G Street, NW	41	79	1947	75,000.00	75,000.00
County, H <sub>7</sub>	2131 G Street, NW	15	58	1947	85,000.00	85,000.00
County, H <sub>8</sub>	2131 G Street, NW	800-801-840	75	1945	105,000.00	105,000.00
County, H <sub>9</sub>	2131 G Street, NW	27	102	1936	11,700.00	11,700.00
County, H <sub>10</sub>	2131 G Street, NW	16	103	1922	14,953.00	14,953.00
County, H <sub>11</sub>	2131 G Street, NW	15	103	1929	15,074.96	15,074.96
County, H <sub>12</sub>	2131 G Street, NW	802-809	102	1922	32,500.00	32,500.00
County, H <sub>13</sub>	2131 G Street, NW	817	80	1917	19,000.00	19,000.00
County, H <sub>14</sub>	2131 G Street, NW	41	80	1946	31,500.00	31,500.00
County, H <sub>15</sub>	2131 G Street, NW	802	79	1938	55,646.21	55,646.21
County, H <sub>16</sub>	2131 G Street, NW	4-803	79	1938	60,000.00	60,000.00
County, H <sub>17</sub>	2131 G Street, NW	816	80	1948	30,000.00	30,000.00
County, H <sub>18</sub>	2131 G Street, NW	A	80	1945	20,500.00	20,500.00
County, H <sub>19</sub>	2131 G Street, NW	B	80	1946	17,000.00	17,000.00
County, H <sub>20</sub>	2131 G Street, NW	804	79	1939	10,146.50	10,146.50
County, H <sub>21</sub>	2131 G Street, NW	816	79	1947	140,000.00	140,000.00
County, H <sub>22</sub>	2131 G Street, NW	807	79	1948	140,000.00	140,000.00
County, H <sub>23</sub>	2131 G Street, NW	25	57	1948	1,000.00	1,000.00
County, H <sub>24</sub>	2131 G Street, NW	803-829	42	1947	23,400.00	23,400.00

LAND AND BUILDINGS—INVESTED IN PLANT (Continued)  
For the Year Ended August 31, 1948

Building or Location	Station Number	Lot	Series	Year Acquired	Balance August 31, 1947	Additions	Balance August 31, 1948
H Street, NW—Leas (deposit)							
2011	800		119	1948	13,000.00	1,000.00	1,000.00
2012	800		101	1948	13,000.00		13,000.00
2014	824		102	1922	5,250.00		5,250.00
2016	823		102	1929	14,000.00		14,000.00
2018	822		102	1933	14,250.00		14,250.00
2018 19	821		102	1938	11,750.00		11,750.00
2020 22	812-820		102	1938	31,066.71		31,066.71
2023	818		102	1934	12,000.00		12,000.00
2025	82		101	1945	21,000.00		21,000.00
2026	829		102	1925	10,200.00		10,200.00
2027	813		101	1941	11,000.00		11,000.00
2029	814		101	1945	11,500.00		11,500.00
2029	817		101	1940	23,500.00		23,500.00
2112	804		77	1940	12,500.00		12,500.00
2113	805		77	1944	12,431.25		12,431.25
2122	809		77	1946	7,500.00		7,500.00
2142	D		79	1935	1,500.00		1,500.00
2143 12	815		79	1940	3,000.00		3,000.00
2207	804		55	1945	6,000.00		6,000.00
2211	17		55	1946	13,000.00		13,000.00
2211 19	18-805		55	1944	15,000.00		15,000.00
2300	817		42	1942	10,750.00		10,750.00
2307	800		41	1948		10,500.00	10,500.00
2307-19	801-802		41	1947		21,000.00	21,000.00
2308	43		42	1948	6,000.00	7,900.00	7,900.00
2311	803		41	1945		500.00	500.00
2312 (deposit)	814		42	1948		12,622.50	12,622.50
2313	21		41	1947		12,000.00	12,000.00
2315	26		41	1947		9,600.00	9,600.00
2316	813		42	1947		14,000.00	14,000.00
2317	813		41	1947			
2323 25 29	944, 807 808		41	1945	17,000.00		17,000.00

I Street, NW—2012	830	101	1945	25,000.00	25,000.00
" "—2014	829	101	1945	25,000.00	25,000.00
" "—2018	21	101	1946	50,000.00	50,000.00
" "—2008	840	101	1942	10,000.00	10,000.00
" "—2006	27	77	1947		11,800.00
" "—2012	825-86	77	1947		12,800.00
" "—2016	826	77	1948		15,000.00
" "—2018	825	77	1945	5,000.00	5,000.00
" "—2004-19-48-10-					
" "—1012-12	34-35-822				
" "—2014-16	818-824	41	1945	72,250.00	72,250.00
	38-39	41	1947	17,500.00	17,500.00
K Street, NW—2000	1 2 3	39	1948	275,000.00	275,000.00
20th Street, NW—700	26	102	1931	17,500.00	17,500.00
" "—712	42	102	1929	14,240.00	14,240.00
" "—714	41	102	1940	14,500.00	14,500.00
" "—716	40	102	1929	15,000.00	15,000.00
" "—718	825-830	102	1929	20,000.00	20,000.00

**LAND AND BUILDINGS—INVESTED IN PLANT (Continued)**  
For the Year Ended August 31, 1948

Building Location	Acres or Fractional Part of Acre	Lot	Square Feet	Year Acquired or Improved	Revised Appraisal, 8/1/47	Amortized	Revised Appraisal, 8/1/48
21st Street, NW—604		23	80	1946	13,000.00		13,000.00
" " " " " " " "		21-22	80	1945	12,500.00		12,500.00
" " " " " " " "		507	102	1941	12,000.00		12,000.00
" " " " " " " "		46	79	1941	40,000.00		40,000.00
" " " " " " " "		808	102	1929	12,000.00		12,000.00
" " " " " " " "		830-431	79	1943	8,883.00		8,883.00
" " " " " " " "		829	79	1947	16,412.00		16,412.00
" " " " " " " "		41	77	1948	9,000.00		9,000.00
" " " " " " " "		840	77	1944	13,000.00		13,000.00
22nd Street, NW—715		24	79	1939	8,190.00		8,190.00
" " " " " " " "		25	79	1940	10,145.00		10,145.00
" " " " " " " "		812-813	79	1938	8,750.00		8,750.00
" " " " " " " "		814	79	1937	4,750.00		4,750.00
" " " " " " " "		4	79	1943	7,000.00		7,000.00
" " " " " " " "		802-803	25	1940	18,500.00		18,500.00
" " " " " " " "		800	25	1945	9,000.00		9,000.00
" " " " " " " "		C	33	1945	14,000.00		14,000.00
" " " " " " " "		817	77	1948	7,000.00	10,500.00	10,500.00
" " " " " " " "		830	25	1945	7,500.00		7,500.00
" " " " " " " "		820	25	1947	11,000.00	8,750.00	9,125.00
" " " " " " " "		822	25	1947			11,000.00
" " " " " " " "		815	75	1946			11,000.00
" " " " " " " "		821	75	1948		12,500.00	12,500.00



23rd Street, NW - 611-e13									
"	706	29,831,822	57	1948	3,675.00	13,500.00	13,500.00		
"	716	827	42	1942	7,425.00				7,425.00
"	734	825	42	1943	7,425.00				7,425.00
"	759	816	42	1942	4,500.00				4,500.00
"	816	818	42	1942	3,000.00				3,000.00
"	822-24 29-28	21	41	1947	25,000.00				25,000.00
		21 22-23-24	41	1948	38,108.00				38,108.00
24th Street, NW 737-739									
"	803-808	808	42	1947	3,150.00	11,440.00	11,440.00		
"	807	802-810	41	1945	3,750.00				3,750.00
"	811-813	80-81	41	1942	5,750.00	26,000.00	26,000.00		
"	815	52	41	1946	5,750.00				5,750.00
"	817	33	41	1947		10,000.00	10,000.00		
Total - Exhibit A					5,887,087.71	1,192,812.50	7,079,900.21		

# TRUST NOTES PAYABLE

August 31, 1948

SECURED BY  
LAND AND  
BUILDINGS

	PAYEE AND DATE DUE	INTEREST	PRINCIPAL
A	JOSEPH J. MATHEY, JOHN M. MATHEY, SARAH G. MATHEY Due April 29, 1949.....	4%	36,000.00
B	EQUITABLE LIFE ASSURANCE SOCIETY Due \$7,875 each May 1 and November 1 including interest.....	4%	214,671.15
C	WASHINGTON LOAN AND TRUST CO. Due February 21, 1950.....	4%	100,000.00
	TOTAL—EXHIBIT A.....		350,671.15

## EQUIPMENT—INVESTED IN PLANT

For the Year Ended August 31, 1948

	BALANCE At August 31, 1947	ADDITIONS OR DEDUCTIONS 1947-48	BALANCE At August 31, 1948
Administration			
Def. Colling Bureau	100,306.79	19,704.17	120,010.96
General	1,774.50		1,774.50
Construction	109,884.62	10,792.46	120,677.08
Hospital—1539 H Street, NW	2,927.87		2,927.87
Transferred to New Hospital	48,512.82		
Hospital—Washington Circle	125,726.09	(42,807.82)	82,918.27
General	1,739.63	42,807.82	44,547.45
Library Books			
General	89,005.43	8,925.17	97,930.60
Law School	67,852.48	1,831.47	69,683.95
School of Medicine	17,162.54	3,984.40	21,146.94
School of Pharmacy	1,831.47	1,199.25	3,030.72
Transferred to Library Books—General		(1,831.47)	
Dinner Auditorium	88,003.24	247.91	88,251.15
Latter Hall	28,892.60	998.92	29,891.52
Mechanical Laboratory	44,514.57	8,630.62	53,145.19
Remick Hall—2025 H Street, NW	2,992.84		2,992.84
School of Medicine	61,910.51	2,605.99	64,516.50
School of Pharmacy	6,756.74	433.88	7,190.62
Stoughton Hall	10,494.16		10,494.16
Strong Hall	18,117.63		18,117.63
Student Club	12,897.43	160.43	13,057.86
General	840,453.46	888,439.75	1,728,893.21
TOTAL—FABRIOT A			

SCHEDULE 9

CURRENT FUNDS RESTRICTED—UNEXPENDED  
For the Year Ended August 31, 1948  
ORGANIZED RESEARCH FUNDS

[illegible]





CURRENT FUNDS RESTRICTED - UNEXPENDED (Continued)

For the Year Ended August 31, 1948

INCOME OF ENDOWMENT AND PLANT FUNDS

[illegible]

[illegible]

## CURRENT FUNDS RESTRICTED—UNEXPENDED (Continued)

For the Year Ended August 31, 1948

## INCOME OF ENDOWMENT AND PLANT FUNDS (Continued)

[illegible]





CURRENT FUNDS RESTRICTED--UNEXPENDED (Continued)

For the Year Ended August 31, 1948

## MISCELLANEOUS FUNDS

Payee	Balance A/c	Receipts	Disbursements	Balance A/c
<b>Fellowship—Sor Juana Club</b>				
<b>Scholarship</b>				
American Foundation—Pharmaceutical Education Fund	350.00	1,500.00		1,500.00
Dorsey, Charles W.	285.00	336.00	Scholarships	175.00
Kennedy, M. F. Technology	2,050.00		"	112.00
Prosser, Fredrick	1,251.00		"	700.00
Washington and Lee High School		500.00	"	425.00
<b>Prize</b>				
Alpha Delta Pi Sorority		10.00	Prize	10.00
Chi Omega Sorority		25.00	"	25.00
Daughters of the American Revolution	100.00	15.00	"	15.00
Delta Gamma Sorority		10.00	"	25.00
Delta Zeta Sorority		25.00	"	25.00
Essex				
Kappa Alpha Gamma Sorority	8.63		Prize	10.00
Pi Beta Phi Sorority		10.00	"	20.00
Pi Lambda Theta Sorority		25.00	"	25.00
Pittman, Lawrence E.	100.00	100.00	"	100.00
Sigma Beta Beta Sorority		10.00	"	10.00
United Daughters of the Confederacy		25.00		
<b>Disbursed from 1946-47</b>				
School of Agriculture		1,320.00	To Schedule 1	220.00
Lowell Social Service		5,040.00	"	833.32
Marine Hospital		1,200.00		
Coastal and Commercial		2,400.00		
Washington Academy of Business	150.00			
	450.00			

FUND	1991-92		To Schedule 1 Lectures	To Schedule 10—Page 1	To Schedule 10—Page 1
	Balance Aug 1, 1991	Aug 1, 1992			
<b>Lectures</b>					
Dorsey, Harryman—Public Law Lectures.....	1,503.13	5,112.65	572.29		930.84
Howard, Frank—Industrial Research Lectures.....			676.70		4,435.95
<b>HOSPITAL</b>					
Blood Plasma Bank Deposits					
Cancer Clinic					
<b>Other</b>					
Associative Reserve					
Fund, New York					
Fund, Dr. Walter					
Kos, Deposit					
University Press—"The Supreme Court"					
<b>TOTALS—EXHIBIT C</b>	12,526.75	16,996.00	5,317.29		24,175.46

### AGENCY FUNDS

FUND	1991-92		Receipts	Withdrawals	Balance Aug 1, 1992
	Balance Aug 1, 1991	Aug 1, 1992			
<b>Agency Funds</b>					
Public Law Research Fund					
Federal Public Housing Authority					
Massachusetts Housing					
G. W. U. Power Fund					
Public Law Research Fund					
Southwest Power Fund					
Western Bank Housing Fund					
<b>TOTALS—EXHIBIT C</b>	864.79	55,249.61	40,335.44		15,778.96

### CHANGES IN PRINCIPAL OF LOAN FUNDS

For the Year Ended August 31, 1948

Funds	Balance August 31, 1947	Additions			Deductions		Balance August 31, 1948
		Income of D C - D A R Endowment Fund	Gifts	Interest on Loans	Loss on Unamortized Loans	Refunded to U. S. Government	
D C - D A R Loan Fund	2,475.25	189.07		2.44			2,666.76
George Washington Law Association Loan Fund	768.00						768.00
Honorariums Loan Fund	387.35		45.00				432.35
Kellogg Veterans School Loan Fund	15,181.93			317.96	251.10		15,047.85
Madison Loan Fund	250.00						250.00
Stevens Loan Fund	8,378.50			20.35			8,398.85
Sutherland Medical School Loan Fund	1,200.00					1,507.17	1,200.00
War Loan Fund	11,544.41						11,544.41
TOTALS—EXHIBIT D	41,087.54	189.07	45.00	340.75	251.10	1,507.17	40,813.75



## For the Year Ended August 31, 1948

SCHEDULE 12—PAGE 1

### CHANGES IN PRINCIPAL OF ENDOWMENT FUNDS (Continued)

For the Year Ended August 31, 1948

Funds	Balance August 31, 1947	Additions			Deductions		Balance August 31, 1948
		Gifts	Investment Income	Gifts or Subsidies Expenditures	Transfers Sales	Other	
<b>RESTRICTED (Continued)</b>							
Student Government	1,000,000.00						1,000,000.00
Student Relief	3,223.26						3,223.26
Medical	2,423.00						2,423.00
Faculty	1,000.00						1,000.00
Graduate	4,166.31						4,166.31
Library	4,272.00						4,272.00
Student Medical Fund	3,223.00	641.00					3,864.00
Student	8,214.44						8,214.44
Faculty	10,000.00		115.47				10,115.47
Library						71.78	71.78
Gifts							

HOSPITAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Other Securities Held for W. Memorial Association	1,527.44			87.50		1,614.94
Purchase of 712 1/2 Shares N.Y.	136,282.63					128,182.63
Salvage of Insurance Policy	24,177.78	52,717.19		2,436.66		78,411.63
Salvage of Insurance Policy	344.30			33.47		617.81
Salvage of Insurance Policy	2,764.44			160.38		
Salvage of Insurance Policy	1,770.21			99.12		
Salvage of Insurance Policy	1,091.99	103.43		254.35		1,829.53
W. Memorial Association Fund	788,208.70	141,686.45		3,508.14	3,992.33	4,781.24
RESERVE FOR PROTECTION OF INVESTMENTS	3,516.02					235,741.58
TOTALS—INHERIT	791,785.72	141,686.45		3,508.14	3,992.33	239,257.60





LOAN FUNDS (Schedule 11)

Home Economics Loan Fund—D.C. Home Economics Association

45.00

ENDOWMENT FUNDS (Schedule 12)

UNIVERSITY OF

Washington Fund—Bequest of Alexander W. Waddell

5,000.00

RESEARCH

Stimulus, Margaret

Stimulus, Margaret Fund—Dr. Thomas D. Foster  
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2,000.00  
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 100.00  
 25.00

625.00

Prize  
 Lucius Price Fund—Helen Lucius Murphy

3,000.00

SCHOLARSHIP

Dorson Memorial Scholarship Fund—Harryman Dorsey

1,000.00

MISSOURI ASSOCIATION

Graduate Fund—Irvin Fellows

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123.00

4,748.00

9,748.00

# GIFTS AND GRANTS—PURPOSE AND DONOR (Continued)

For the Year Ended August 31, 1948

## PLANT FUNDS—UNEXPENDED (Schedule 13)

PLANT ADDITIONS		
Hospital Equipment Fund—various donors		128,088.86
<hr/>		
Library Book Funds		
Brooklyn Alumni Club	100.00	
Dr. Benjamin Richman	50.00	
Dr. Spangler	25.00	
Dr. Franklin	175.00	
Herbert, Mrs. Louise C.	100.00	
Rosen, Dr. John N.	500.00	775.00
<hr/>		
School of Engineering Building Fund		38,615.00
Mrs. Lila R. Thompson		14,102.19
Charles H. Thompson		
<hr/>		
Women's Activities Building Fund		81.65
Faculty members of "G Street Felities"		18.75
W. Lucinda Thoma		5.00
Constitution Women		
		<hr/>
		105.40
		<hr/>
		181,486.45
		<hr/>
TOTAL GIFTS AND GRANTS		597,098.03
		<hr/>

# DESCRIPTION OF LOAN FUNDS

August 31, 1948

<p><b>DISTRICT OF COLUMBIA D. A. R. LOAN FUND</b>            Created by Johnson bequest of the D. C. D. A. R. Endowment Fund. To be loaned to descendants of participants of the American Revolution.</p>	2,000.76
<p><b>GEORGE WASHINGTON LAW ASSOCIATION LOAN FUND</b>            Created in 1941 by gift of the George Washington Law Association to be loaned to students of the Law School.</p>	708.00
<p><b>HOOVER FELLOWSHIP LOAN FUND</b>            Created in 1940 by the D. C. House of Commerce Association to be loaned to senior girls majoring in Home Economics.</p>	352.33
<p><b>KIRKPATRICK LOAN FUND</b>            Created in 1942 by gift of the W. K. Kellogg Foundation to be loaned to students of the School of Medicine.</p>	15,920.83
<p><b>SPENCER LOAN FUND</b>            Created in 1928 by the University to make short time loans for educational purposes.</p>	8,095.85
<p><b>SUTHERLAND LOAN FUND</b>            Created in 1941 by gift of Rose L. Sutherland and other donors, to be loaned to students of the School of Medicine.</p>	1,200.00
<p><b>WAF LOAN FUND</b>            Created in 1942 by the United States Government to be loaned to students in technical and professional fields of National Defense.</p>	11,036.96

DESCRIPTION OF ENDOWMENT FUNDS

August 31, 1948

UNRESTRICTED FUNDS

ACKER FUND Bequest of George N. Acker, M. D., received in 1924, the income only to be used	300 00
ALUMNI ENDOWMENT FUND Created by the Class of 1920, to be added to by succeeding graduating classes, the income only to be used.	581 20
CAMPBELL FUND Created in 1928-24 by gifts of various donors, the income only to be used	186,749.38
CORCORAN FUND Gift of William W. Corcoran of \$112,000, and gifts of other donors between the years 1871-80, the income only to be used	220,155.76
DAVIS FUND Bequest of Harry C. Davis, received in 1946, the income only to be used	41,570 40
HAGGETT FUND Created in 1941 by gift of Isabelle Barnes Haggett, the income only to be used	1,000 00
KING, W. B. FUND Created in 1941 by gift of William B. King, the income only to be used	19,215 50



<p>RECHERCHES FUND Gift of Mary M. Rockwellletter in 1945, in memory of her husband. Later H. Rockwellletter, the income only to be used</p>		15,000 00
<p>SAVINGS FUND Gift of E. Seiden in 1945, the income only to be used</p>		2,110 00
<p>SUBSCRIPTION GIFT FUND Gift of various donors during the years 1845-51, the income only to be used. (Formerly called the Postdoctor Endowment Fund)</p>		12,525 56
<p>SYMS FUND Bequest of Samuel Syms in 1891, the income only to be used</p>		1,500 00
<p>TRUSTEES' FUND Created by the Board of Trustees of the University in 1932, the income only to be used</p>		1,524 06
<p>WHEELER FUND Bequest of Alexander W. Wheelock, received in 1918, the income only to be used</p>		5,000 00
<p>WINTERS FUND Gift of John Winters of \$16,000, and gift of various donors during the years 1851-70, the income only to be used. (Formerly called the Perry Trust and Dollar Endowment Fund)</p>		26,891.46
<p>WOODHULL FUND Bequest of Margaret Willott Woodhull, received in 1946, the income only to be used</p>		50,000.00

# DESCRIPTION OF ENDOWMENT FUNDS (Continued)

August 31, 1948

## FELLOWSHIP FUND

KING FELLOWSHIP FUND	
Bequest of Harbela Osborn King, received in 1928, the income to be used for a fellowship in biology	39,457.56
SANDERS FELLOWSHIP FUND	
Bequest of Adlai Sanders in 1928 in memory of her brother, Thomas Bradford Sanders, the income to be used for annual fellowships in various academic fields of study	213,090.12

## PROFESSORSHIP FUNDS

ALUMNI PROFESSORSHIP FUND	
Gifts of various alumni since 1911, the income to be used for an alumni professorship in mathematics	829.49
CARROLL PROFESSORSHIP FUND	
Created by Mary A. Sharpe in 1928, in memory of Mitchell Carroll, the income to be used for a chair in Archeology	500.00
CONGRESSIONAL PROFESSORSHIP FUND	
Gift of the United States in 1852, by Act of Congress, of \$25,000 in city lots in Washington, D. C., to be sold, the proceeds conveyed, and the income to be used for professorships	158,709.04
DEWEY CHAIR IN PUBLIC SPEAKING FUND	
Created by May Depew in 1906, the income to be used for a course to be known as the "Chauncey M. Depew Course in Public Speaking"; income in excess of \$6,000 annually to be added to principal	167,246.71
ELTON PROFESSORSHIP FUND	
Bequest of Thomas Elton of Exeter, England, in 1872, the income to be used for a professorship to be called the "John A. Professorship of Mental and Moral Philosophy"	14,508.19
FRY PROFESSORSHIP FUNDS	
Bequest of Annabel Lee Fry, received in 1945, in memory of her husband, Dr. Henry D. Fry, the income to be used for a professorship in physiology	101,559.98
Created in 1945 from income of the fund, the income of the two funds to be used for a professorship in physiology	18,592.22
YULEE ENDOWMENT FUND	
Bequest of George Yulee Noble in memory of her mother, Nancy Yulee, in 1929, the income to be used for lectures in home economics	5,000.00

# SCHOOL FUNDS

## GOVERNMENT

### SCOTTISH RITE ENDOWMENT FUND

Created by will in 1928, by the Supreme Council of the Ancient and Accepted Scottish Rite of Freemasonry of the Southern Jurisdiction of the United States of America, as a permanent memorial to Governor William D. Coker, The Master. To be invested and the income used to maintain a School of Department of Government.

1,000,000 00

## MEDICAL

### BORDEN MEDICAL FUND

Created in 1912 by William C. Borden, M. D., and Jessie F. Borden, the income to be applied to lectures given to be known as the William C. Borden Lectures in Surgery or Medical Science. Any income not so used annually shall be added to principal.

3,169 07

### COTTER MEDICAL RESEARCH FUND

Created in 1940 by gifts of various donors in memory of Dr. James Lloyd Cotter, the income to be used for special research in surgery.

2,828 00

### COTTER MEDICAL RESEARCH FUND

Bequest of Everett L. Cotter in 1905, on certain terms since modified by the Supreme Court of D. C. as follows: the income to be used with the endowment and subventions in connection with the National Department of the University of a Research Laboratory, the work of this laboratory to be devoted to the investigation of the nature, causation, prevention, and cure of malaria and other infectious and contagious diseases.

10,000 00

### GRANT MEDICAL SCHOOL FUND

Bequest of William D. Grant, received in 1928, the income to be used for the School of Medicine.

4,486 55

### LEWIS MEDICAL SCHOOL FUND

Bequest of Samuel F. Lewis, received in 1925, the income to be used for the School of Medicine.

\$2,298 00

### SCHOOL OF MEDICINE ENDOWMENT FUND

Created in 1940 by the gift of various donors, the income to be used for the School of Medicine.

7,861 00

### SHARP MEDICAL SCHOOL FUND

Created by gifts of Mary A., Elizabeth M., and Sallie Sharpe in 1924, the income to be used for the School of Medicine.

8,162 75

## PHARMACY

### GIBBS PHARMACY FUND

Gift of M. G. Gibbs in 1927, the income to be used to aid in establishing and maintaining a commercial pharmacy course in connection with the School of Pharmacy.

10,000 00

# DESCRIPTION OF ENDOWMENT FUNDS (Continued)

August 31, 1948

## HOSPITAL FUNDS

CHAPMAN HOSPITAL FUND Bequest of Mrs. Susanna A. Chapman in 1911, the income to be used for the purposes of the free wards of the University Hospital.	1,225.90	
GENERAL HOSPITAL ENDOWMENT FUND Created in 1924 by gifts of various donors, the income to be used for the benefit of the University Hospital.	1,200.00	
HOSIEN HOSPITAL FUND Bequest of L. Koser H. Hoser, received in 1944, the income to be used to endow a room in memory of his daughter, Anna Victoria Hoser.	2,500.00	
KROGER HOSPITAL FUND Bequest of Anna Kroger, received in 1912, the income to be used for the benefit of the University Hospital.	3,071.70	84
KUBERSCH HOSPITAL FUND Bequest of Freda Kubersch, received in 1930, the income to be added to the principal until the principal shall be large enough to contain a bed in the White Ward of the Hospital to be known as the "Freda Kubersch Bed."	1,135.79	1
NATIONAL PARK STEVENSON HOSPITAL FUND Gift of the George National Park Society of Forest Glen, Maryland, in 1949, the income to be used toward the maintenance of a bed in the University Hospital.	500.00	
REINHARDT HOSPITAL FUND Bequest of Emma W. Reinhardt in 1922, the income to be used for the University Hospital.	500.00	
TRIM HOSPITAL FUND Created in 1911 by bequest of Lambert M. Tree, in memory of his mother, Mrs. Laura M. Tree, the income to be used to maintain one or more beds in the University Hospital, to be known as the "Laura M. Tree Bed or Beds."	10,000.00	
WINDSOR HOSPITAL FUND Bequest of Alice Julia Windbury in 1909, the income to be used for the reception and treatment of female patients in the University Hospital.	10,000.00	



# PRIZE FUNDS

## BURNS MEMORIAL AWARD FUND

Gift of Susan Burns in 1917 in memory of her son, Byrne Thurtell Burns, the income to be used for an annual award in chemistry

1,000.00

## GOULDEN PRIZE FUND

Created in 1943 by John Henry Goulden, the income to be used for annual awards in the School of Government

3,000.00

## GOULDEN PRIZE FUND

Bequest of Dr. William Goulden, received in 1941, the income to be used to award an annual prize for excellence in dissertation in department of Education

1,000.00

## GOULDEN PRIZE FUND

Gift of Milton Kerzner Cutter in 1902, in memory of E. K. Cutter, the income to be used for an annual award for excellence in the study of English

1,000.00

## DAVIS PRIZE FUND

Gift of James Davis in 1847, the income to be used for annual awards to members of the senior class who have made the greatest progress in research since their graduation with the University

700.00

## ESSARY PRIZE FUND

Gift of Helen Essary Murphy in 1948 in memory of her late husband, Jesse Frederick Essary, the income to be used for an annual award to journalists

3,000.00

## EVANS MEMORIAL AWARD FUND

Created in 1917 by gifted friends of Barbara Evans III, the income to be used to establish a prize, as a memorial to an outstanding woman, to be awarded annually to the woman in the graduating class who has demonstrated her special ability in the study of natural and social sciences and who has given promise of the interpretation of that ability in good citizenship among her fellows

1,200.00

## FITCH PRIZE AWARD

Gift of Joseph E. Fitch in 1883 in memory of Willie F. Fitch, the income to be used for an annual award to a senior student for the best general examination in chemistry

1,000.00

## GOULDEN PRIZE FUND

Gift of Marie W. Goulden, Alice Douglas Goulden, and Frederick J. Goulden, in 1923, in memory of Morgan Randolph Goulden, Rufus Goulden, and James Douglas Goulden; added to in 1941 by a gift of Frederick J. Goulden in memory of Alice Douglas Goulden. The income shall be used to award four cash prizes annually to the students making the highest averages in commerce, French language and literature, pharmacy, and American literature, respectively

5,519.00

# DESCRIPTION OF ENDOWMENT FUNDS (Continued)

August 31, 1948

## PRIZE FUNDS (Continued)

<b>HUBBARD PRIZE FUND</b> Gift of Corinne M. Hubbard in 1907, in memory of her husband, Gardner G. Hubbard, the income to be used for an annual award for excellence in American history	1,000.00
<b>LARRIER PRIZE FUND</b> Bequest of Louis B. LARRIER in 1935, the income to be used for an annual award in the Law School	800.00
<b>ORDREMAN PRIZE FUND</b> Bequest of John Ordreman in 1909, the income to be used for annual awards in the Law and Medical schools	5,000.00
<b>RENNETT PRIZE FUND</b> Gift of William Renne in 1859, the income to be used for an annual award for excellence in mathematics	500.00
<b>STANFORD PRIZE FUND</b> Created by gift of William Linton of Exeter, England, in 1840, the income to be used for annual awards for excellence in the Law and Greek languages, one to be called the Stanford Prize in Law, the other the Linton Prize in Greek	500.00
<b>STURTEVANT PRIZE FUND</b> Gift of the Reverend J. MacBride Sturtevant, in 1911, in memory of his son, J. MacBride Sturtevant, Jr., the income to be used for books to be awarded annually to the student obtaining the highest average in general physics	300.00
<b>SUTTON PRIZE FUND</b> Gift of Charles Sutton in 1941, the income to be applied yearly to enlarging the sum set apart for the Historical Prize established by his father by the Historical Club, December 7, 1936	1,000.00
<b>WALSH PRIZE FUND</b> Gift of Thomas F. Walsh in 1901, the income to be used for an annual award for the best essay on some topic in history	1,000.00
<b>WEDDELL PRIZE FUND</b> Gift of Mrs. George Weddell in 1923, the income to be used to award annually the Alexander Williamson Weddell Prize for the best essay on the most important aspect of the production of peace at one of the nations of the world	5,000.00

# SCHOLARSHIP FUNDS

## ARTHURS MEXICAN SCHOLARSHIP FUND

Gift of Julia M. Arthurs in 1920 as memory of her husband, Byron Arthurs, the income to be used for scholarships for women and only of children of English, Irish, American, English, American, or partial descent.

5,121.23

## BARRIS SCHOLARSHIP FUND

Created by will of Dr. Aaron Barris (Died in 1947), the income to be used for a scholarship for a woman in the School of Medicine and an internship for a woman in the University Hospital.

15,847.50

## CARR SCHOLARSHIP FUND

Created by request of Emma K. Carr in 1912, the income to be used for scholarships for young white men.

48,018.91

## CARTER, H. H. SCHOLARSHIP FUND

Gift of Maria M. Carter in 1870, in memory of her husband, Henry Harding Carter, the income to be used for scholarships in Civil Engineering.

5,000.00

## CARTER, M. M. SCHOLARSHIP FUND

Gift of Maria M. Carter in 1871, the income to be used for scholarships for young men.

1,000.00

# DESCRIPTION OF ENDOWMENT FUNDS (Continued)

August 31, 1948

## SCHOLARSHIP FUNDS (Continued)

### COLUMBIAN WOMEN FUNDS

#### BLISS SCHOLARSHIP FUND

Created by the Columbian Women's Club of Washington, D. C., in 1925, in memory of Elizabeth V. Brown, the income to be used for scholarships in the School of Education.

1,200.00

#### CHAMBERLIN SCHOLARSHIP FUND

Created by the Columbian Women of The George Washington University in 1932 in memory of Grace Ross Chamberlin, the income to be used for scholarships for young women.

2,300.00

#### COLLEGE WOMAN'S SCHOLARSHIP FUND

Gift of the College Woman's Club of Washington, D. C., in 1926, the income to be used for scholarships.

500.00

#### FOUNDERS OF COLUMBIAN WOMEN SCHOLARSHIP FUND

Created by the Columbian Women of The George Washington University in 1920, the income to be used for scholarships for women in Columbian College.

5,000.00

#### HARRIS SCHOLARSHIP FUND

Created by the Columbian Women of The George Washington University in 1925 in memory of Lillian Young Harris, the income to be used for scholarships for women in Columbian College. Formerly The Columbian Women Scholarship Fund.

5,000.00

#### KNAPE SCHOLARSHIP FUND

Gift of the Columbian Women of the George Washington University in 1915, in memory of Nellie Maynard Knapp, the income to be used for scholarships for women.

5,000.00

#### WILSON SCHOLARSHIP FUND

Gift of the Columbian Women in 1926 in memory of her parents, Lewis D. and Myrtle H. Wilson, the income to be used for scholarships in the School of Medicine.

1,000.00



<b>DAVIS SCHOLARSHIP FUND</b> Gift of Isaac Davis in 1869, the income to be used for scholarships	1,000.00
<b>DORSEY SCHOLARSHIP FUND</b> Created in 1947 by gift of Harryman Dorsey in memory of Charles Worthington Dorsey, the income to be used for scholarships	2,000.00
<b>FARNHAM SCHOLARSHIP FUND</b> Gift of Mrs. Robert Farnham in 1871, the income to be used for scholarships in Columbian College	1,000.00
<b>HARVEY SCHOLARSHIP FUND</b> Bequest of Emma Elizabeth Harvey, received in 1923, in memory of her daughter, Phyllis Lewis Harvey, the income to be used for scholarships in Columbian College for young women of the Protestant faith and of the Caucasian race	5,031.97
<b>KENDALL SCHOLARSHIP FUND</b> Gift of Anna Kendall in 1869, the income to be used for a scholarship now designated by the Board of Trustees as one of the two High School Scholarships assigned to Central High School	5,950.61
<b>MORRIMON SCHOLARSHIP FUND</b> Created by gift of A. M. Morrison in 1861, the income to be used for scholarships for undergraduates intending to enter the Christian ministry	1,500.00
<b>PEARSON SCHOLARSHIP FUND</b> Bequest of Dr. Paul Pearson, received in 1944, the income to be used for scholarships in the School of Pharmacy	2,839.80
<b>POWELL SCHOLARSHIP FUND</b> Gift of Lewis M. Powell in 1880, the income to be used to train young men for entrance in the United States Naval Academy or to fit them to become mates and masters in the Merchant Marine Service of the United States	50,000.00
<b>SHEPARD SCHOLARSHIP FUND</b> Bequest of Isaac M. Shepard, received in 1946, the income to be used for scholarships in the School of Government	10,000.00

# DESCRIPTION OF ENDOWMENT FUNDS (Continued)

August 31, 1948

## SCHOLARSHIP FUNDS (Continued)

SPENCER SCHOLARSHIP FUND Created by gift of Jessica J. Spencer in 1918, the income to be used for scholarships.	7,434.20
STONE SCHOLARSHIP FUND An anonymous gift in 1893 in memory of Mary Lowell Stone, the income to be used for scholarships for women students of science in Columbian College.	2,000.00
SWISHER SCHOLARSHIP FUND Created by gift of Dr. Charles Clinton Swisher in 1941, the income to be used to award scholarships in Medieval History...	7,529.55
WALKER SCHOLARSHIP FUND Gift of William Walker in 1824, the income to be used for scholarships for undergraduates intending to enter the Christian ministry.	2,500.00
WILKINSON SCHOLARSHIP FUND Gift of the New York Baptist Theological Seminary, on behalf of John Withington, in 1830, the income to be used for scholarships.	1,953.13
WOODHULL SCHOLARSHIP FUND Bequest of John M. E. Woodhull, received in 1921, the income to be used for scholarships in Columbian College.	600.00

# LIBRARY FUNDS

## HOWARD LIBRARY FUND

Gift of Captain Deane Childs Howard in 1943 in memory of Captain Deane Childs Howard, Jr., the income to be used to purchase books for the Library

5,000.00

## MAYER LIBRARY FUND

Gift of Eugene Mayer in 1944, the income to be used to purchase books for the Library

1,000.00

## NOYES LIBRARY FUND

Bequest of Theodore W. Noyes, received in 1947, the income to be used to purchase books for the University Library

10,000.00

## SWANER ABOVE BOOK FUND

Gift of Dr. Charles Carter Swisher in 1941, in trust for the Historical Society of the University, the income to be used to purchase books for the Swisher Above Book Library

2,000.00

## MISCELLANEOUS FUNDS

### DISTRICT OF COLUMBIA D. A. R. FUND

Created in 1926 by gifts of chapters in the District of Columbia, the income to be added to the D.C. - D. A.R. Loan Fund

5,000.00

### GRADUATE ENDOWMENT FUND

Created by the Class of 1926 to be used for the acquisition of sites, erection of buildings, and maintenance and purchase of equipment. Only the income may be used until fund reaches \$50,000 when, income, and principal over \$50,000, may be used

12,539.57

## RESERVES FOR PROTECTION OF INVESTMENTS OF ENDOWMENT FUNDS

### RESERVE FOR PROTECTION OF CONSOLIDATED ENDOWMENT FUNDS INVESTMENTS

Created from income arising from the sale of investments, and by setting aside annually a portion of the net income of Consolidated Endowment Funds assets

51,272.03

### RESERVE FOR PROTECTION OF SCOTTISH RITE ENDOWMENT FUND INVESTMENTS

Created from assets arising from the sale of Scottish Rite investments

59,556.96

# DESCRIPTION OF PLANT FUNDS—UNEXPENDED

August 31, 1948

## PLANT ADDITIONS

CLASS OF 1929 WOMEN'S UNIT No. 3 FUND Created by gifts of the women members of the Class of 1929, to be used to aid in the building of Unit No. 3	414.08
FIELD HOUSE FUND Created by gifts of the Class of 1946 to assist in building a field house	180.00
GENERAL BUILDING FUND Created by 1946 by gifts of various donors, to be used for the purchase of sites, buildings, equipment, to remodel and rebuild, and to pay off obligations	340.30
GEORGE WASHINGTON MEMORIAL FUND Created in 1937 by transfer of the assets of the George Washington Memorial Association to the University, to be used toward the erection and equipping of the auditorium	7,824.95
LAW SCHOOL EXPANSION FUND Created by 1945 by gifts of various donors, to be used for the acquisition of land and the erection of a building or buildings for the use of the Law School	5,264.80
LIBRARY BOOK FUNDS—GIFTS OF VARIOUS DONORS	
BUTLER, HENRY E., LIBRARY FUND	50.00
BROCK, MARY C., LIBRARY FUND	43.57
BROOKLYN ALUMNI CLUB LIBRARY FUND	175.00
CLASS OF 1945 LIBRARY FUND	28.75
COUNCIL OF RELIGIOUS ORGANIZATIONS LIBRARY FUND	503.21
DAVIS, HARRY C., LIBRARY FUND	25.00
ENGINEERS' LIBRARY FUND	45.00
HEALTHY SOCIETY LIBRARY FUND	225.00
HERBST LIBRARY FUND	100.00
LINCOLN ARC WELDING FOUNDATION LIBRARY FUND	7.02
MURDOCK, MRS. JAMES O., LIBRARY FUND	9.80
NOYES, THEODORE W., LIBRARY FUND	4,778.79
ROSEN LIBRARY FUND	298.73



<i>Ohio Section of the George Washington Memorial Association Fund</i>	
Created in 1941 by gift of the Ohio Section of the George Washington Memorial Association, to be used to erect a memorial	1,614.94
<i>Patro Fund</i>	
Created in 1931 by Richard E. Patro, by devise and bequest, to be used for athletics	128,132.63
<i>School of Engineering Building Fund</i>	
Created in 1946 by gift of Mr. and Mrs. Charles H. Tompkins, to be used toward the erection of a School of Engineering Building	78,431.63
<i>School of Medicine Building Fund</i>	
Created in 1945 by gifts of various donors, to be used toward the erection of a School of Medicine building	617.81
<i>Student Union Furnishings Fund</i>	
Created in 1931 by various contributions, to furnish and equip a student union building	1,829.33
<i>Women's Activities Building Fund</i>	
Created in 1939 by gifts of various donors to erect a women's activities building	4,751.24

#### RESERVE FOR PROTECTION OF INVESTMENTS OF PLANT FUNDS

Created from profits arising from the sales of investments, and by having set aside annually (through the year 1937-1938) a portion of the income of Consolidated Plant Funds Investments	3,516.02
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THE  
GEORGE  
WASHINGTON  
UNIVERSITY

BULLETIN

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FIELDS OF RESEARCH

THE GRADUATE COUNCIL

1948-49



WASHINGTON, D. C.

Price 1.45

## THE GRADUATE COUNCIL

The fields of research listed in this announcement have been authorized by the Graduate Council as those in which doctoral investigations and dissertations may be undertaken. The supporting fields of study required of all candidates for the degree of Doctor of Philosophy are specified for each individual student by his Consultative Committee before admission to study under the Council.

This list of fields is subject to such change as the educational resources of the University may direct. The prospective student may address preliminary inquiries concerning his research interests to the member of the Council who is in charge of the field, or to the Chairman of the Graduate Council.

## FIELDS OF RESEARCH

### ANATOMY

*Directed by* WARREN ANDREW, Professor of Anatomy.

### BACTERIOLOGY

(1) Intestinal Microbiology; (2) Immunity in Tuberculosis; (3) Problems in Medical Bacteriology with especial reference to Diagnostic Methods and Immunization. *Directed by* LELAND WILBUR PARK, Professor of Bacteriology.

Intestinal Microbiology; Immunology: Antigenic Analysis. *Directed by* ANGUS MACIVOR GRIFFIN, Associate Professor of Bacteriology.

Bacterial Nutrition. *Directed by* CARL ROBERT BREWER, Chief, Bacterial Nutrition Branch, Basic Sciences Division, Chemical Corps, Camp Detrick.

Anti Biotics. *Directed by* HENRY WELCH, Chief, Division of Penicillin Control and Immunology, United States Food and Drug Administration.

Virology. To be arranged.

### BIOCHEMISTRY

(1) Carbohydrate Metabolism; (2) Nutrition (emphasis on vitamins); (3) Pathological Chemistry. *Directed by* JOSEPH HYRAM ROE, Professor of Biochemistry.

Tissue Respiration. *Directed by* DEAN BURK, Chemist, National Cancer Institute.



## BOTANY

(1) Mycology; (2) Plant Pathology. *Directed by* WILLIAM WEBSTER DIEHL, Adjunct Professor of Mycology.

Taxonomy. *Directed by* LYMAN BRADFORD SMITH, Professorial Lecturer in Botany; Associate Curator, Division of Phanerogams, Department of Botany, Smithsonian Institution.

## CHEMISTRY

Organic: (1) Identifications; (2) Syntheses. *Directed by* COLIN MACKENZIE MACKALL, Professor of Chemistry.

Organic. *Directed by* SAMUEL NATHANIEL WRENN, Professor of Chemistry.

Inorganic. *Directed by* CHARLES RUDOLPH NAESER, Professor of Chemistry.

Physical: Solubilities. *Directed by* BENJAMIN DOUGLASS VAN EYLA, Professor of Chemistry.

## ECONOMICS

International: (1) International Economic Theory; (2) International Trade; (3) International Finance. *To be arranged.*

Economic Theory: (1) Economic Fluctuations; (2) History of Economic Thought. *Directed by* ARTHUR EDWARD BURNS, Professor of Economics.

Economic Policy: (1) Economic Planning; (2) Public Finance. *Directed by* DONALD STEVENSON WATSON, Associate Professor of Economics.

(1) National Income; (2) Public Finance. *Directed by* GERHARD COLM, Professorial Lecturer in Economics; Economist, Council of Economic Advisors, Executive Office of the President.

## HISTORY

European: Modern Imperialism. *Directed by* LOWELL RAGATZ, Professor of European History.

European: Nationalism. *Directed by* ELMER LOUIS KAYSER, Professor of European History.

United States: (1) Social; (2) Economic. *Directed by* WOOD GRAY, Professor of American History.

United States: (1) Diplomatic; (2) Political. *Directed by* HOWARD MAXWELL MERKINIAN, Professor of American Diplomatic History.

Latin American: (1) Spanish and Portuguese Colonies in America; (2) Nineteenth and Twentieth Century History; (3) Inter-American Relations. *Directed by* ALVA CURTIS WILGUS, Professor of Latin American History.

#### LAW

Trade Regulation: Trade Practices and Anti-Trust Laws. *Directed by* SAUL CHESTERFIELD OPPENHEIM, Professor of Law.

Jurisprudence. *Directed by* CHARLES SAGER COLLIER, Professor of Law.

#### LITERATURES AND LANGUAGES

English: (1) Sixteenth Century Drama; (2) Seventeenth Century Drama. *Directed by* FRED SALTERBY TULFER, Professor of English.

English: Eighteenth Century Drama. *Directed by* GEORGE WILCHESTER STONE, JR., Professor of English.

American Literary Nationalism. *Directed by* ROBERT WHITNEY BOLWELL, Professor of American Literature.

German: (1) German Philology; (2) Comparative Philology. *Directed by* EDWARD HENRY SEERT, Professor of German.

Romance: (1) Romance Linguistics; (2) Old and Middle French; (3) Old Spanish. *Directed by* HENRY GRATTAN DYLL, Professor of Romance Languages.

Romance: Modern Spanish Literature. *Directed by* ANTONIO ALONSO, Associate Professor of Spanish.

Romance: Latin American Literature. *Directed by* ALBERTO VAZQUEZ, Lecturer of Spanish American Literature; Chief, North and West Coast Branch American Republic Area Division, United States Department of State.

Romance: (1) Sixteenth Century French Literature; (2) Modern French Literature. *Directed by* LOUIS CLARK KEATING, Professor of Romance Languages.

Romance: Seventeenth Century French Literature. *Directed by* MERLE IRVING PROTZMAN, Professor of Romance Languages.

## MATHEMATICS

Algebra: Finite Groups. *Directed by* FRANCIS EDGAR JOHNSTON, Professor of Mathematics.

Geometry: Differential Geometry. *Directed by* JAMES HENRY TAYLOR, Professor of Mathematics.

Analysis: Infinite Series. *Directed by* FLORENCE MARIE MEARS, Professor of Mathematics.

## PHARMACOLOGY

(1) Chemotherapy; (2) Drug Metabolism. *Directed by* PAUL KENNETH SMITH, Professor of Pharmacology.

## PHYSICS

Experimental: Electronics. *Directed by* THOMAS BENJAMIN BROWN, Professor of Physics.

Theoretical: (1) Relativity; (2) Nuclear; (3) Astrophysics. *Directed by* GEORGE ANTONY GAMOW, Professor of Theoretical Physics.

Theoretical: The Solid State. *Directed by* RAYMOND JOHN STELLER, Professorial Lecturer in Physics; Chief, Mechanics Division, Naval Ordnance Laboratory.

## PHYSIOLOGY

(1) Nutrition and Endocrinology; (2) Cardiovascular System. *Directed by* EURETT CYRIL ALDRIFTON, Professor of Physiology.

(1) Blood Pressure Studies; (2) Neuro-Muscular Studies.  
*Directed by* CHESTER ELWOOD LEESE, Associate Professor of Physiology.

Environmental Human Physiology. *Directed by* ALBERT RICHARD BEHNKE, Captain, Medical Corps, United States Navy; Research Executive, Naval Medical Research Institute.

#### POLITICAL SCIENCE

United States: Legislative Process. *Directed by* WARREN REED WEST, Professor of Political Science.

International: (1) International Politics and Organization; (2) Far East. *Directed by* WILLIAM CRANE JOHNSTONE, JR., Professor of Political Science.

International Law: (1) War and Neutrality; (2) Arbitration.  
*Directed by* JOHN WITHROW BREWER, Professor of International Law.

Public Administration: Governmental Organization. To be arranged.

#### PSYCHIATRY

(M.D. degree required for admission.) *Directed by* WINFRED OVERHOLSER, Professor of Psychiatry.

#### PSYCHOLOGY

Personnel Psychology. *Directed by* MITCHELL DREESE, Professor of Educational Psychology.

Psychological Measurements. *Directed by* THELMA HUNT, Professor of Psychology.

#### STATISTICS

(1) Theoretical: Probability and Sampling; (2) Applied: Econometrics. *Directed by* FRANK MARK WEIDA, Professor of Statistics.



## ZOOLOGY

Invertebrate: Morphology and Embryology. *Directed by* DONNELL BROOKS YOUNG, Professor of Zoology.

Invertebrate: Molluscan Morphology and Physiology. *Directed by* PAUL SIMON GALISOFF, Senior Biologist, Fish and Wildlife Service, United States Department of the Interior.

Parasitology: Parasitic Protozoa. *Directed by* WILLARD HULL WRIGHT, Professorial Lecturer on Medical Zoology; Scientist Director, United States Public Health Service, and Chief, Zoology Laboratory, National Institute of Health.

THE GEORGE WASHINGTON UNIVERSITY

1821

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The Junior College

1930

Columbian College (the Senior College)

1821

The Graduate Council

1893

The School of Medicine

1825

The Law School

1865

The School of Engineering

1885

The School of Pharmacy

1906

The School of Education

1907

The School of Government

1928

The Division of University Students

1930

The Division of Special Students

1944

The Summer Sessions

1916

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The University Hospital

1898

# The Graduate Council

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The Degree of Doctor of Philosophy



THE GEORGE WASHINGTON UNIVERSITY  
WASHINGTON, D. C.

1948





# The Graduate Council

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The Degree of Doctor of Philosophy



THE DOCTORAL DISCIPLINE OF  
THE GEORGE WASHINGTON  
UNIVERSITY

THE GRADUATE COUNCIL of The George Washington University offers a program of advanced study and research leading only to the degree of Doctor of Philosophy. The Council was established in 1930 to provide a doctoral discipline which moves freely across administrative lines dividing departments of instruction or fields of study. Graduate work for both the Doctor's and the Master's degrees had been directed by

the Graduate School, which the Graduate Council replaced. The distinction in method and purpose between these two disciplines was made in the assignment of the degrees of Master of Arts and Master of Science to other divisions of the University, such as Columbia College, the School of Education, and the School of Government, which administer the Bachelor's degrees with which the Master's degrees are logically associated.

#### THE DEGREE OF DOCTOR OF PHILOSOPHY

THE PROGRAM for the degree of Doctor of Philosophy is made up of training for a career of creative scholarship, and comprises the study of related fields of learning and the investigation of a research project in the field of central interest. This training is not confined to the mastery of the particular materials and techniques necessary to the preparation of the required doctoral dissertation, but is designed to provide a broad background of knowledge and scholarship together with an understanding of research methods so that the graduate may continue independent studies and qualify as an authority in his subject.



## THE GRADUATE COUNCIL

**T**HE GRADUATE COUNCIL is a company of scholars brought together through a common interest in advanced study and research; it is composed of members of the University faculty, associated specialists, and doctoral students. The Faculty members are chosen because of their designated fields of research and their desire to train scholars in the methods and materials of their subjects. Research specialists, from governmental departments and laboratories, from other institutions of Washington and elsewhere, are invited into membership in order to supplement the Council's program. Doctoral students who have met all preliminary requirements and have passed the Council Fellowship Examination hold the status of Fellows of the Council.

The Council holds open meetings during the academic year at which individual research problems are presented and discussed. The Fellows report on their particular investigations and receive the suggestions and criticism of other members. Each Fellow works individually under the personal supervision of a professor or associated specialist on a program of study and research which has been set up for him. Such a program is not under the control of any department of instruction. Frequently it may be composed of

filled out and the applicant requests that transcripts of all previous academic records, together with report of the Graduate Record Examination if available, be sent directly to the Chairman of the Council. The Chairman then appoints a special admissions committee to consider the applicant. This committee consists of (a) personnel members and (b) consultative members who survey the applicant's personal and academic qualifications for doctoral work. The committee makes recommendations concerning admission to the Chairman of the Council, who presents the report to the Council for consideration and action. The personnel members of the committee are members of the Graduate Council, and are discharged upon rendering their recommendations. The consultative members of the committee include members of the faculty and associated specialists whose fields of study are closely related to the interests of the applicant.

If the committee recommends the admission of the applicant, the consultative members continue to serve as the student's Consultative Committee, which prescribes and directs his program of studies. The committee may require the applicant to take certain courses of instruction or pass written tests before making recommendation for admission. Members are added to or excused from this committee by the Chairman

of the Council as the educational needs of the student may indicate.

#### STUDY FOR THE COUNCIL FELLOWSHIP EXAMINATION

THE DISCIPLINE for the degree is divided into two stages. The first is made up of study in related fields of learning which support the general area of research concentration, culminating in the Council Fellowship Examination. The second stage is composed of research and investigation of a particular project in a special field and the presentation of such research in a written dissertation, culminating in the Final Examination.

At the beginning of the student's program of study leading to the Council Fellowship Examination, his Consultative Committee assigns to him a group of fields of learning deemed necessary to insure his breadth of knowledge and general competence for continuing independent research, as well as to support the dissertation project in his central field. These supporting fields of study, usually five or six in number, are more inclusive in scope and detail than courses of instruction announced in the University catalogue even though they may be titled alike. Members of the Consultative Committee will



advise the student concerning their scope and content.

The function of the Council Fellowship Examination is to obtain objective evidence of the student's breadth of background and intellectual equipment necessary to support doctoral research and investigation in his central field. The student may prepare for this examination in various ways. He may have acquired, through independent study and previous experience, sufficient knowledge in the required fields to be urged by his committee to take the examination shortly after his admission to work under the Council. He may prepare himself by study in the library or laboratory, by conference with the members of his committee, by visiting or being assigned to courses of instruction in this or other institutions of learning. The examination, however, not credits or grades for work done in courses, is the sole test of the student's ability to qualify for admission to the rank of Fellow of the Graduate Council, and to enter the second phase of his doctoral discipline.

The registration of the student who is preparing to take the Council Fellowship Examination is for *resident graduate study* and not for particular courses carrying credits. Under this registration he is free to visit classes which serve to complete



his preparation, to take courses, and to use any of the educational facilities of the University recommended by his committee. In case a student desires, for personal or professional reasons, to have certification for work done in some course of instruction, he may apply to the Chairman of the Council who arranges for this record with the professor in charge of the course and the Registrar of the University. This certification bears no relation to his status under the Council.

The Council Fellowship Examination is a series of written tests usually extending over a period of one week, set at a time mutually agreed upon by the Consultative Committee and the student. The major portion of a day is given to each part of the examination covering one of the required fields previously specified by the committee. This examination is regarded as one unit subdivided only for convenience in administration into the topics of separate fields of learning. It is prepared and read by a special committee usually consisting of the student's Consultative Committee and other members of the University faculty. Each member of the examining committee is responsible for the examination as a whole. The committee reports to the Council concerning the student's fitness to specialize in the study and investigation of his chosen field of scholarship, and does not designate whether certain sup-

porting fields or subdivisions of the examination are satisfactory or deficient. If the committee reports that the results of the examination are unsatisfactory, the student is generally urged to discontinue his doctoral study under the Council; only by special recommendation of the committee is the student eligible to take another examination. If the committee reports that the results of the examination are satisfactory, the student is admitted as a Fellow of the Graduate Council to pursue his specialized study and research under the supervision and guidance of a member of the Council who is in charge of the particular field.

#### RESEARCH, THE DISSERTATION, AND THE FINAL EXAMINATION

THE STUDENT has the privilege of applying for research training and specialized study under the direction of any member of the Council, who may accept or reject such application. After this research supervision has been arranged by the Chairman and approved by the Council the student is formally inducted as a Fellow, and is registered for *resident graduate research*. From that time throughout the remainder of his doctoral program the Fellow is responsible only to the member of the Council directing his research. This relationship is comparable to that of the

historic guild system, in which an apprentice received his training under the personal supervision of a master. Such a Master in Research undertakes to direct the Fellow in the investigation of a problem in his chosen field and in the presentation of the results in a written dissertation. Upon the approval of the dissertation by this member of the Council, the Fellow is presented for his final examination.

The fields of research in which doctoral projects may be undertaken are limited to those in which the University has adequate resources, and a list of such authorized fields is published annually. The Council offers a program of research only in those fields in which its members have competence and interests as specialists. When necessary, the University makes provision for sending the Fellow to some other institution, library, or laboratory for special study in connection with his doctoral investigation.

The dissertation is required of all candidates for the doctoral degree as evidence of ability to perform scholarly research and to interpret its results. Three typewritten copies are submitted to the Chairman of the Council, with the written approval of the member who has supervised the project, before the Fellow is eligible for his final examination. An abstract (about 300 words)



program within the five-year period a committee may, before recommending his admission, require that the applicant agree to perform part of his work in full-time residence.

#### POST-DOCTORAL STUDY

THE COUNCIL expects its graduates to continue their interest in advanced study and research, and to contribute to its program. All graduates are listed as Associate Fellows and, upon request, will receive notices of all general meetings. They may continue any studies in the University without payment of tuition, and enjoy all University library privileges. Such graduates are required to pay only the Residence Charge in order to establish their active membership in the University. The use of laboratory space and equipment is contingent upon availability, and the cost of all laboratory or special library materials is paid by the graduate. Special arrangements for such privileges must be made with the Chairman of the Council. Post-doctoral work may not be applied toward any degree offered by the University.



## DETAILED INFORMATION CONCERN- ING PROCEDURES AND REGULATIONS FOR STUDENTS

### FELLOWSHIPS AND FINANCIAL AID

**T**HE UNIVERSITY provides Teaching Fellowships in certain departments of instruction, available only to students who qualify for admission to study under the Graduate Council. The stipend and tuition granted are for service rendered to the department, usually in classroom or laboratory. Graduate assistantships are also assigned to some departments for similar service.

Other special fellowships, supported by endowment, and for which no service is required, may be awarded to doctoral students of unusual promise and ability.

A few scholarships, supported by endowment, are open to application from graduate students, and certain loan funds are also available.

An announcement is issued annually by the Chairman of the Council relating to fellowships and graduate assistantships. For information concerning scholarships and loan funds, the student should refer to the University catalogue.

## TUITION AND FEES

**T**HE TUITION CHARGE for work leading to and including the Council Fellowship Examination is \$360. This charge is for guidance, instruction and general supervision, and entitles the student to all of the educational facilities of the University, including attendance in classes, seminars, and special work in the laboratories and libraries as recommended by his Consultative Committee. This charge, divided into term units, may be prorated in the case of a student carrying a part-time schedule. When the student has paid this amount in full, he is subject to no further tuition charges until he begins his research work as a Fellow of the Council.

The tuition charge for research work leading to and including the final examination is \$360. This also may be prorated when the Fellow is on a part-time schedule.

A Fellow of the Graduate Council who successfully passes his final examination is required to pay a fee of \$50 for the printing of the summary and the binding of the three copies of the dissertation.

The graduation fee of the candidate for the degree of Doctor of Philosophy is \$20. The graduate receives as his personal property the University doctoral hood which is conferred at Commencement.

The University Residence Charge of \$12 is required each term of all students who continue their programs of study or research beyond the period covered by the payment of tuition. This charge is also required each term of students who are on leave of absence and who wish to preserve their advanced status under the Council. If this charge is not paid, the student's status in the Council is disrupted and he must apply for readmission in order to continue for the degree.

#### ADMISSION

1. There is no fixed date on the University calendar for the admission and initial registration of doctoral students under the Council. It is desirable, but not required, that students begin graduate study early in the term. Preliminary interviews with the Chairman of the Council and with the professor of the major field may be arranged at any time. Committees, however, can not meet to consider applications during the regular registration periods when members of the faculty have other academic duties. Students interested in graduate study are advised to apply well in advance of the term in which they wish to begin their studies, because the necessary interviews and committee consultations require more time than registration for courses in other divisions of the University.



2. Before making formal application for admission to doctoral study, the applicant meets in personal interview with the Chairman of the Council, and also with the professor in charge of the major field of interest.

3. If the Council has the facilities necessary for the applicant's desired program and the Chairman and professor approve, the application form is completed and filed with the Chairman of the Council.

4. The applicant must request that transcripts of previous academic records be sent direct to the Chairman of the Council from all institutions of higher learning at which he has studied, together with the report of the Graduate Record Examination if available. Publications or papers relating to his scholarly interests should also be submitted.

5. After receipt of transcripts and other data necessary for admission, the Chairman of the Council appoints an admission committee of personnel and consultative members who meet with the applicant and consider his qualifications for doctoral study.

6. The committee may require qualifying tests or further study in courses of instruction before making recommendation for admission.



7. If the applicant is recommended for admission, he takes an examination in one of the two required foreign languages. Previous tests taken at this or other institutions may not be applied to meet the language requirements.

8. After the first foreign language examination is passed, the Council considers the report of the applicant's committee, with the research field and the program of supporting fields of study clearly specified. When admission is approved by the Council, the student pays his first unit of tuition and begins his resident study for the Council Fellowship Examination under the guidance of his Consultative Committee.

#### STUDY FOR THE COUNCIL FELLOWSHIP EXAMINATION

1. The student may undertake his study on full or part-time schedule, in accordance with the specified program set up by his Consultative Committee. The Council Fellowship Examination must be taken within a maximum of three years after the student is admitted.

2. The services of individual members of the student's Consultative Committee are continuously available for academic guidance and conference during the period of preparation. Detailed information about the content and scope

of the fields of study is given to the student in these conferences. He is expected to make frequent reports to the members of his committee concerning his progress.

3. Within one year after admission (eighteen months for part-time students) the student must take examination in the second required foreign language. He can not take his Council Fellowship Examination before this and other special requirements are passed. He is urged to complete such assignments as promptly as possible in order that these skills may be used in his study for the Council Fellowship Examination as well as in the scholarship of his research field.

4. Any change of program or fields of study assigned for the Council Fellowship Examination must be recommended by the student's committee as a whole and submitted to the Council for approval.

5. The student is required to register promptly at the beginning of each regular term; even when granted leave of absence he must register and pay the University Residence Charge. Failure to maintain continuous registration discontinues his program under the Council, and to resume his work he must apply for readmission under whatever new conditions may be set by his committee.



6. Although the Summer Sessions are an integral part of the University's educational program, doctoral study during the summer is restricted to those fields which the student's committee approves as adequate in staff and educational resources.

7. The student should apply for his Council Fellowship Examination with the approval of his committee. It is assumed that the committee has information as to his general preparation, and recommends only in his interest. The student, however, has the right to apply for examination even though the committee may urge postponement.

8. A file of questions from previous Council Fellowship Examinations is available for inspection in the office of the Chairman of the Council.

9. The student who fails to pass the Council Fellowship examination is usually advised to discontinue his work under the Council. In some cases a special reexamination may be ordered by the Chairman of the Council upon the recommendation of the examination committee.

10. Each year the Chairman of the Council meets with all students working towards the Council Fellowship Examination to discuss with them common problems and objectives, and to explain details of procedure.

## RESEARCH, DISSERTATION, AND FINAL EXAMINATION

1. After the student is informed that he has passed the Council Fellowship Examination, he applies to a member of the Council for the direction of his research project.
2. The report of the Council Fellowship Examination committee and the application for research direction, approved by a member of the Council, are presented to the Council, and the student is admitted as a Fellow.
3. The Fellow then registers for his resident research work, pays the second unit of tuition, and is formally inducted into membership at the next general meeting of the Council.
4. The Fellow is required to submit to the Chairman of the Council the title of his dissertation, approved by the Master in Research, at least one full term before his graduation.
5. The Fellow is expected to arrange with his Master in Research for the presentation of his project at a general open meeting of the Council before the final writing of the dissertation.
6. The Fellows' Reading Room, located in the University Library, provides special facilities for doctoral students. All Fellows of the Council may use this service, and a limited number of



students preparing for their Council Fellowship Examinations may be accommodated. Assignments to this room are made by the Chairman of the Council.

7. Detailed information concerning the required style and form of the dissertation, the summary, and the abstract is obtained from the Chairman of the Council.

8. When the dissertation is completed, three copies with the written approval of the Master in Research are delivered to the Chairman of the Council, and the date of the final examination is arranged. At least one month is required after the dissertation is received for the appointment of the examiners, reading of the dissertation, and printing and distribution of the announcement of the final examination.